

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 89.06.06

ASSESSMENT REPORT 17473

MINING DIVISION: Clinton

PROPERTY: Second
 LOCATION: LAT 51 03 09 LONG 122 03 36
 UTM 10 5655864 565886
 NTS 092001E

CLAIM(S): Second 1-2, Second 4-5, Ulcer
 OPERATOR(S): Cyprus Metals (Can.)
 AUTHOR(S): McClintock, J.A.; Durfeld, R.M.
 REPORT YEAR: 1988, 74 Pages

COMMODITIES
 SEARCHED FOR: Gold

GEOLOGICAL
 SUMMARY: The claims are underlain by siltstone, greywacke and conglomerates of the Lower Cretaceous Jackass Mountain Group which have been intruded by a stock of granodiorite and related dyke-like apophyses of feldspar porphyry. Within a broad area of carbonate and argillic alteration, six zones of intense silicification and argillic alteration were outlined. These zones of intense silicification have surface dimensions up to 1300 metres by 250 metres.

WORK
 DONE: Geological, Geochemical
 GEOL 506.0 ha
 Map(s) - 1; Scale(s) - 1:5000
 ROCK 17 sample(s) ;AU
 SOIL 2500 sample(s) ;AU,AS,SB,HG,AG,ZN
 Map(s) - 4; Scale(s) - 1:5000

RELATED
 REPORTS: 16666

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE
SECOND CLAIM GROUP

LOG NO: 0614	RD.
FILE NO:	

CLINTON MINING DIVISION, BRITISH COLUMBIA

FILMED

Latitude 51° 03' North

Longitude 122° 03' West

**NTS 93014
GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,473
by

JOHN A. McCLINTOCK, P.Eng. (B.C.)

RUDOLF M. DURFELD, B.Sc.

April 14, 1988

Vancouver, B.C.

TABLE OF CONTENTS

	<u>Page #</u>
1. SUMMARY AND CONCLUSIONS	4
2. INTRODUCTION	6
2.1 Location	6
2.2 Access and Physiography	6
2.3 Ownership	6
2.4 History and Previous Work	7
2.5 Purpose of Program	8
3. GEOCHEMISTRY	
3.1 Sample Collection, Preparation and Analysis	9
3.2 Results	9
4. GEOLOGY	
4.1 Regional Geology	13
4.2 Second Property Geology	13
4.3 Alteration and Mineralization	15
5. DISCUSSION	19
6. RECOMMENDATIONS	20
7. REFERENCES	21
8. CERTIFICATE	22

APPENDIX I: COST STATEMENT

APPENDIX II: GEOCHEMICAL ANALYSES

ILLUSTRATIONS

Figure 1	PROPERTY LOCATION MAP	After Page 6
Figure 2	CLAIM MAP (1:50,000)	After Page 7
Figure 3	GEOCHEMICAL PLAN, GOLD (1:5,000)	In Pocket
Figure 4	GEOCHEMICAL PLAN, ARSENIC (1:5,000)	In Pocket
Figure 5	GEOCHEMICAL PLAN, MERCURY (1:5,000)	In Pocket
Figure 6	GEOCHEMICAL PLAN, COPPER (1:5,000)	In Pocket
Figure 7	GEOLOGY PLAN (1:5,000)	In Pocket

1. SUMMARY AND CONCLUSIONS

The Second Creek Property, situated 33 km west of Clinton, British Columbia, was evaluated by a program of grid soil sampling and 1:5,000 scale geological mapping during October and November 1987. The work program was focussed on a 3,500 meter by 1,500 meter region of hydrothermally altered rock underlying the central portion of the claim group.

Geological mapping found the central area of the claims to be underlain by siltstone, greywacke and conglomerates of the lower Cretaceous Jackass Mountain Group, which have been intruded by a stock of granodiorite and related dyke-like apophyses of feldspar porphyry. Within a broad area of carbonate and argillic alteration, 6 zones of intense silicification and argillic alteration were outlined. These zones of intense alteration have surface dimensions up to 1,300 meters by 250 meters. A select sample from one of these zones contained 1520 ppb gold.

Soil sampling highlighted five of the intensely altered zones as coincident or partially coincident mercury and arsenic anomalies with smaller associated gold anomalies. Two additional coincident arsenic and gold anomalies were detected in overburden covered areas. The source of these anomalies requires further investigation.

The style of alteration, including banded, drusy and chalcedonic quartz veins and pervasive silification associated with intense argillic alteration, is typical of that associated with gold-bearing epithermal deposits such as the Cinola deposit on Queen Charlotte Islands. This alteration, combined with the highly anomalous mercury and arsenic in soils, and low-grade, but anomalous, gold values in the altered rock indicate the potential on the Second Creek Property for an epithermal gold deposit.

To further evaluate the Second Property for such a gold deposit, a two phase exploration program is recommended. The initial phase, at an estimated cost of \$35,000, will select specific drill sites within the altered and geochemical anomalous zones. Drilling from sites selected during the initial phase will be carried out in a second phase program. The cost of the second phase is estimated to be \$175,000.

2. INTRODUCTION

2.1 Location

The Second Property, comprised of the Second mineral claim group in the Clinton Mining Division, is located 33 kilometers due west of the village of Clinton and 7 kilometers west of the Fraser River (Figure 1). More precisely, it is located at 51 degrees 3 minutes north latitude and 122 degrees 3 minutes west longitude. (NTS Map 92 0/1)

2.2 Access and Physiography

Access to the property is via 80 kilometers of seasonal gravel road from the Village of Lillooet, or by helicopter from either Williams Lake or Lillooet.

The property is bisected by the steep, immature and narrow "V" shaped valleys of Second Creek and its tributaries. The elevation on the property varies from 700 meters in lower Second Creek in the north, to summits of 1,750 meters in the south.

Vegetation on the Second Property is characterized by open forests of mature fir and pine, with undergrowth of grasses that are typical of the dry climate (mean annual precipitation of less than 30 centimeters) in this area. Locally, in areas of recent forest fires, the forest cover consists of closely spaced immature fir and pine.

2.3 Ownership

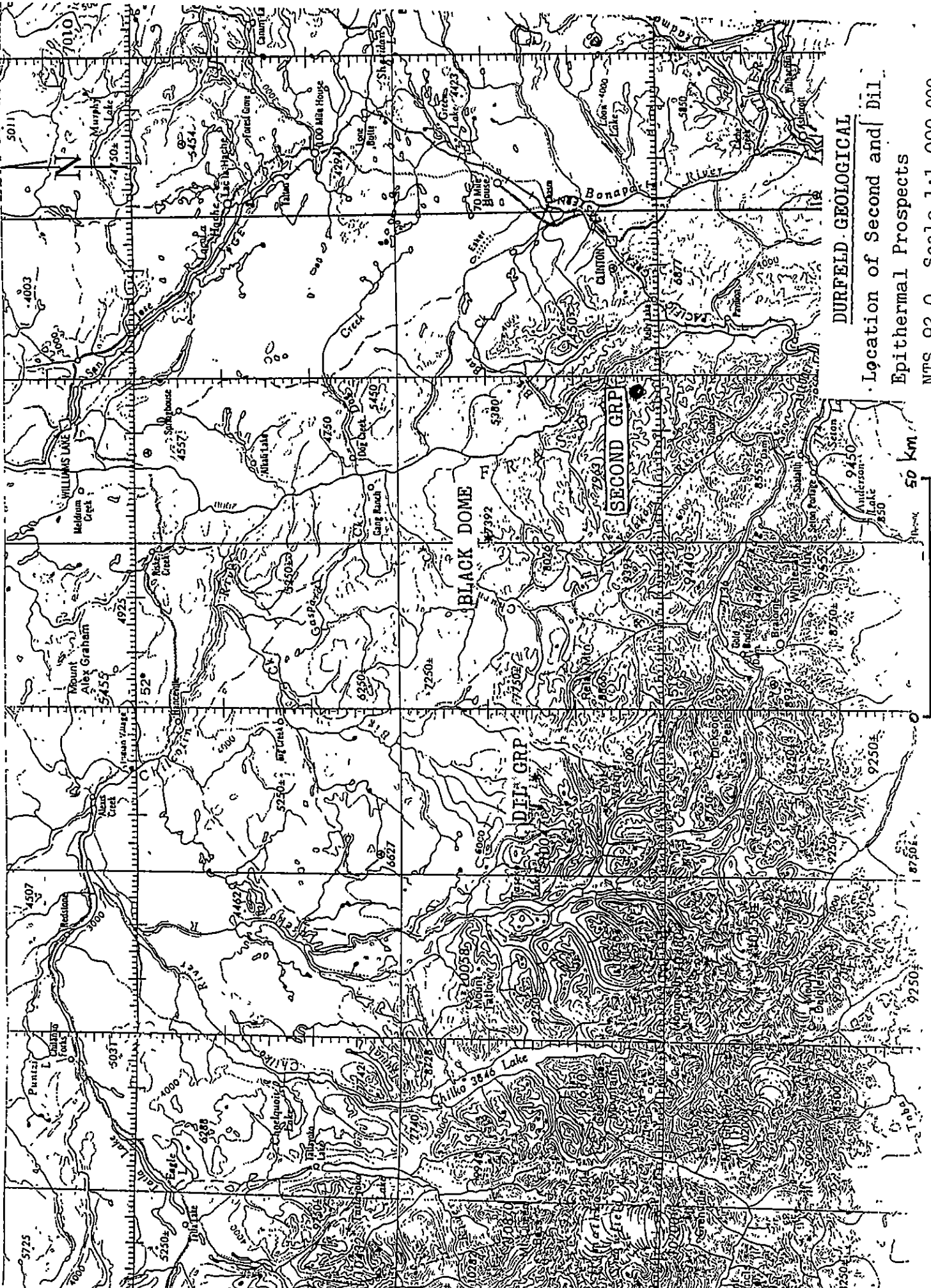
The Second Property is comprised of seven contiguous modified grid mineral claims for a total of 110 claim units. The status of these claims is summarized below and the relative claim locations are plotted on figure 2. The claims are owned by Cyprus Metals Canada Inc.

121

122°

123° (Joins 2186)

124



DURFELD - GEOLOGICAL

Location of Second and Diff
Epithermal Prospects

NTS 92-0 Scale 1:1,000,000

50 km

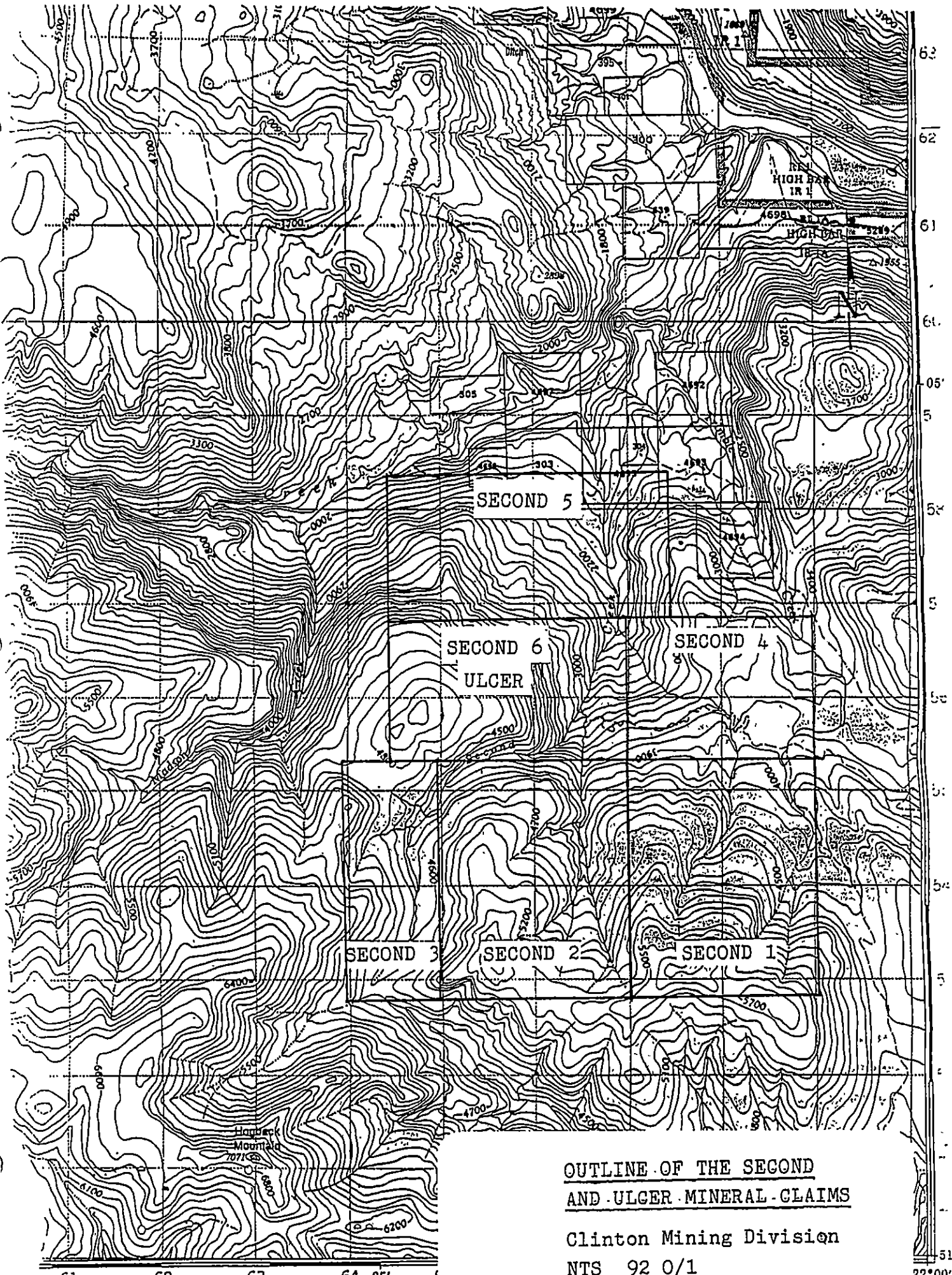
<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>
SECOND 1	2082	10	Sept. 19, 1986
SECOND 2	2083	20	Sept. 19, 1986
SECOND 3	2097	10	Oct. 16, 1986
SECOND 4	2098	12	Oct. 16, 1986
SECOND 5	2298	18	June 29, 1987
SECOND 6	2299	15	June 29, 1987
ULCER	2322	15	Aug. 12, 1987

2.4 History

Early exploration in this area would have coincided with the Gold Rush on the Fraser River and subsequent placer mining in Watson Bar Creek, just to the north of the Second Property, during the period 1860 to 1900.

In June 1980, E and B Exploration Inc. staked much of what is now the Second Property as the Carolyn 1 to 8 claims. E and B Exploration Inc. staked the ground to acquire several large alteration zones in Jackass Mountain Group Sedimentary rocks. Subsequent exploration by E and B consisted of prospecting, contour soil sampling and rock geochemistry. Dome Mines also staked claims in 1980 over what is now part of the Second Property. These claims, called the Leon 1 to 5, were prospected and grid-soil sampled by Dome.

Work by E and B Explorations on the Carolyn claims, identified a northwesterly trending zone of silicification, kaolinization and carbonate alteration that is coincidentally anomalous in mercury, arsenic and gold.



OUTLINE OF THE SECOND
AND ULCER MINERAL CLAIMS

Clinton Mining Division
 NTS 92 0/1
 Scale: 1:50,000

2.5 Purpose of Program

The purpose of the current exploration program was to explore in detail the area highlighted as geochemically anomalous by the reconnaissance prospecting and sampling program of E and B Explorations Inc. To this end, grid-soil sampling on a 100 meter by 20 meter grid was carried out in conjunction with 1:5,000 scale geological mapping. It was hoped that grid soil sampling would more specifically identify geochemical anomalies within the broad anomalous zones defined by the previous widely spaced soil sampling.

Geological mapping and limited rock sampling was designed to determine the orientation, and gold content of the alteration zones.

The program was geared towards defining targets which would warrant trenching and/or drilling within the broad zone of alteration.

3. GEOCHEMISTRY

3.1 Sample Collection, Preparation and Analysis

During the period October 20 to November 12, 1987, Durfeld Geological Management Ltd. prepared a grid and collected over 2,500 samples from grid lines 100 meters apart, with sample stations at 20 meter intervals that were established over the Second 1, 2 and Ulcer mineral claims. At each station, a sample of "B" horizon soil was collected and placed in a labelled kraft paper envelope. As part of the survey, 17 rock-chip samples were also collected. At each site, approximately 2 kilograms of rock chips were placed in a plastic bag. Descriptions of rock samples are provided in later sections.

All the soil and rock samples were sent to Min-En Laboratories Ltd. in North Vancouver. At the Min-En laboratory, soil samples were analyzed for gold, arsenic, mercury, copper, silver antimony and zinc. Gold analysis was carried out on a 10 gram sub-sample of -80 mesh material after a hot aqua regia digestion and a M.I.B.K. extraction. A 0.5 gram sub-sample was analyzed for the other 6 elements using standard ICP methods. Rock samples were analyzed for gold using a fire assay preparation with atomic absorption analysis of the resultant bead.

3.2 Results

A preliminary review of the soil sample results showed arsenic, mercury, copper and gold to display distinctly anomalous populations. Using a statistical analysis described by Sinclair, the results for each element were divided into anomalous and non-anomalous populations. Log probability plots used for the statistical analysis are provided on the following pages and a summary of the anomalous levels for each element are listed below.

<u>ELEMENT</u>	<u>ANOMALOUS</u>
Arsenic	30 ppm
Mercury	300 ppb
Copper	120 ppm
Gold	15 ppb

Arsenic

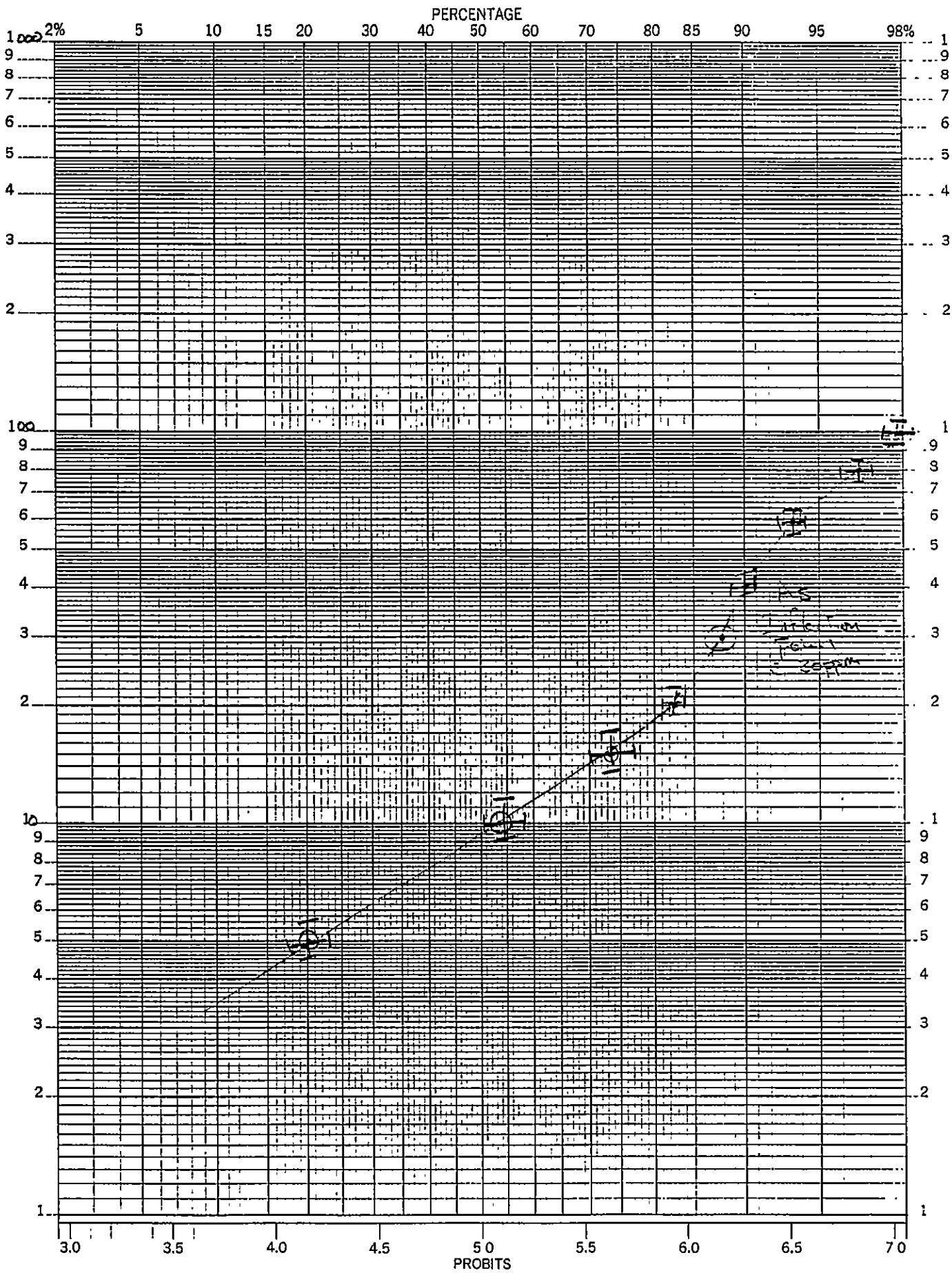
Contouring of the arsenic values at 30 ppm highlight large areas of the grid as anomalous. The most prominent anomalous area measures 1,500 meters by 350 meters and consists of a series of sineous shaped anomalies trending northeasterly through the central grid area between lines 93 + 00 E and 100 + 00 E. The anomalies are coincident with, or downslope from outcroppings of altered and silicified rocks.

A second area of anomalous arsenic occurs south of the baseline between lines 105 + 00 E and 113 + 00 E. This zone consists of a northerly trending zone of scattered multi-station anomalies coincident with clay altered and silicified rock. The most southerly of the anomalies comprising this zone is still open.

A third anomalous area was highlighted in the vicinity of Line 111 + 00 E and 103 + 00 N. This dendritic shaped anomaly overlies a northeasterly zone of clay altered and silicified rock outcroppings. A fourth, smaller anomaly at grid co-ordinate 102 + 00 E and 96 + 00 N, also is coincident with altered rock.

Smaller, multi-station arsenic anomalies were also detected at grid co-ordinates 107 + 00 E, and 198 + 00 N, and at 92 + 00 E and 107 + 00 N. Both these anomalies occur in areas that are extensively overburden covered. Elsewhere, anomalous arsenic values are restricted to scattered single or double site anomalies.

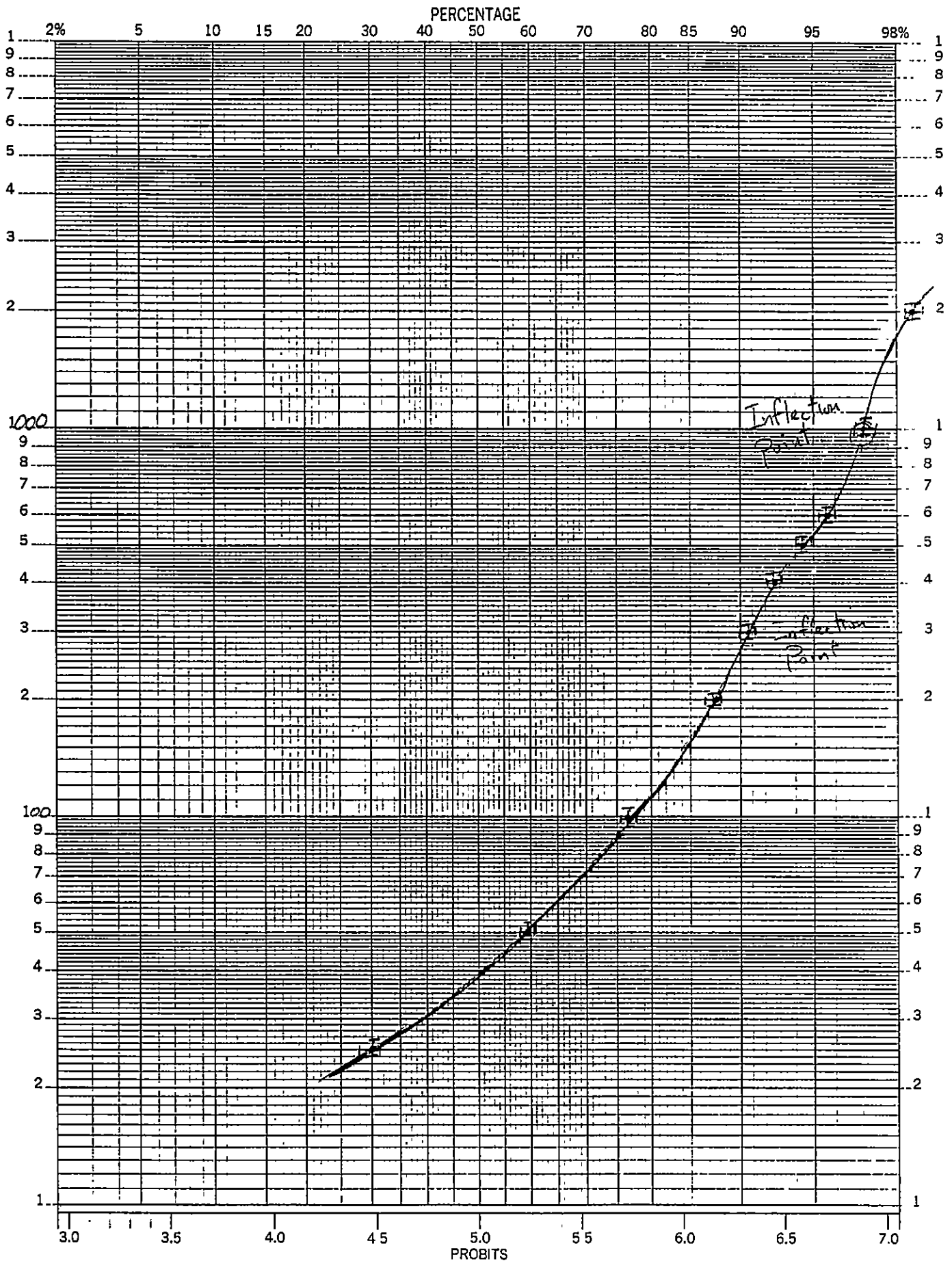
PROBABILITY PLOT ARSENIC



46 8080

K-E PROBABILITY X 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

PROBABILITY PLOT MERCURY



46 8080

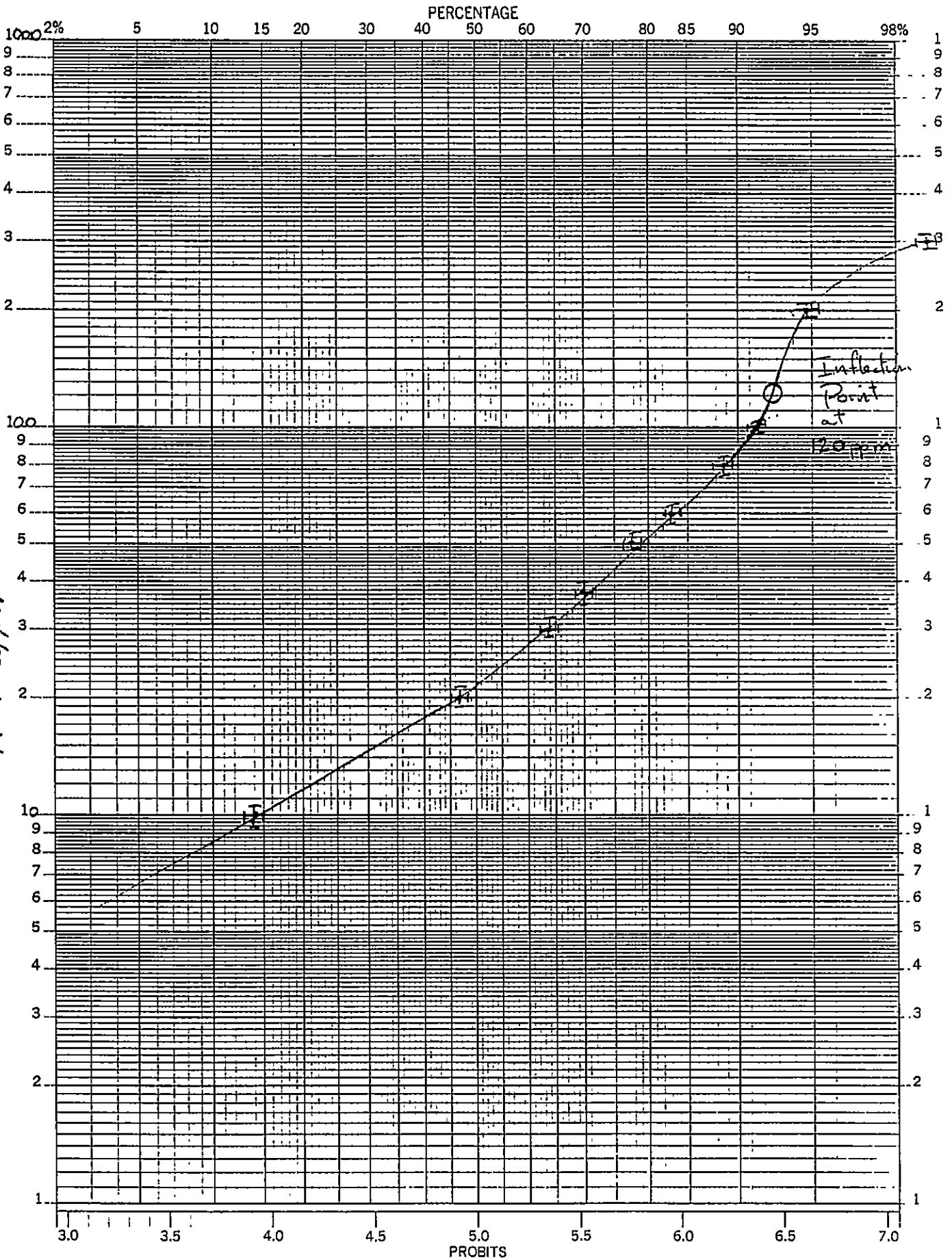
KE PROBABILITY X 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

PROBABILITY PLOT COPPER

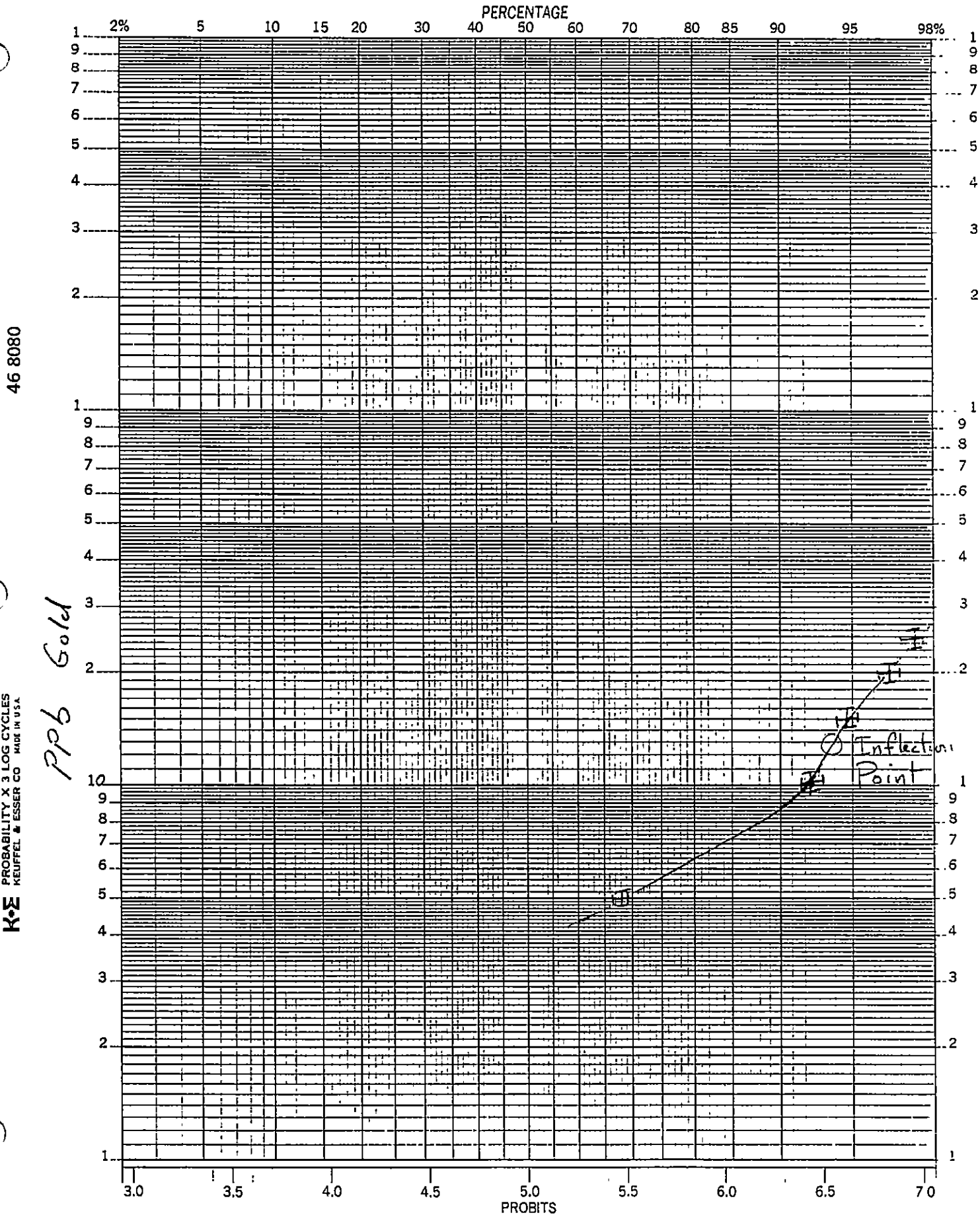
46 8080

K-E PROBABILITY X 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

PPM Copper



PROBABILITY PLOT GOLD



46 8080

K-E PROBABILITY X 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

PPb Gold

Mercury

Contouring of mercury at 300 ppb defined a northerly trending 1,000 by 300 meter area between lines 102 + 00 E and 111 + 00 E. This anomaly is centred over an area of strong silicification and clay-alteration. The mercury anomaly is also coincident, but more widespread than a similarly trending area of smaller arsenic anomalies. A smaller mercury anomaly occurs immediately south of the baseline between lines 96 + 00 E and 111 + 00 E. This smaller mercury anomaly is partially coincident with one of the arsenic anomalies forming the prominent 1,500 meter long northeasterly trending anomalous zone. The third mercury anomaly is centred at grid co-ordinate 102 + 00 E and 96 + 00 N. This anomaly is coincident with an arsenic anomaly.

Numerous single or double station anomalies are scattered through the east central grid area. With few exceptions, these mercury anomalies are coincident with arsenic anomalies.

Copper

Three anomalous areas are highlighted by contouring copper values above 120 ppm. The largest anomaly occurs south of the baseline between lines 95 + 00 E and 100 + 00 E. This anomaly is generally coincident with a mercury and arsenic anomaly. The second area of copper anomalies is situated south of the baseline between lines 105 + 00 E and 111 + 00 E. Here, scattered, small copper anomalies coincide with a large mercury anomaly and clustered arsenic anomalies. Strongly anomalous copper values occur in four clusters along line 90 + 00 E from the baseline north. These anomalous copper values are coincidentally anomalous with gold and occur in an area of unaltered sandstone. No copper minerals or alteration was noted in this area during mapping and it is suspected that the anomalous copper may be an analytical error or due to contamination during sample preparation.

Gold

Numerous single station and multi-station gold anomalies are scattered throughout the grid area. The larger, multi-sample anomalies, are clustered in four general areas. On the north side of West Second Creek, a series of gold anomalies are coincident with a prominent, 1,500 meter long, northeasterly trending arsenic anomaly. On the east fork of Second Creek, several closely spaced gold anomalies are wholly or partially coincident with arsenic and/or mercury anomalies. Both clusters of gold anomalies occur over, or down slope, from out-croppings of intensely argillically altered and silicified sedimentary rocks.

North of the baseline, between lines 104 + 00 E and 107 + 00 E, is a third cluster of gold anomalies. These anomalies are in an overburden cover region. Here, the gold anomalies coincide with single station mercury anomalies and are partially coincident with arsenic anomalies.

Copper and gold is coincidentally anomalous in the alteration zones on the east and west forks of Second Creek. Anomalous copper and gold values also coincide on line 90 + 00 E north of the baseline. The high gold values on this line, like the copper, are suspected to be caused by analytical errors or contamination.

4. GEOLOGY

4.1 Regional Geology

The vicinity of the Second Property has been mapped by H.W. Tipper of the Geological Survey of Canada (92/0, Open File 534). Tipper shows the claim area to cover a northerly trending splay of the Fraser River Fault that brings rhyolitic to dacitic pyroclastic rocks and flows of Eocene-age in contact with clastic sedimentary rocks of the lower Cretaceous Jackass Mountain Group.

The Jackass Mountain Group is divisible into three distinct units (Duffell & McTaggard, 1950). These are: a lower unit comprised of up to 600 meters of non marine arkose, greywacke and lesser conglomerate and shale; a middle unit of coarse conglomerate with minor beds of greywacke and argillite up to 500 meters thick; and an upper unit of greywacke, thinly interbedded greywacke and argillite, conglomerate and argillite that is at least 1,500 meters thick. These units trend north to northeasterly. Faulting is the dominant structure, with minor folding occurring locally.

The Eocene volcanic rocks are comprised of tuffs, breccia, agglomerates and flows. Most of these volcanic rocks are dacites with rhyolites being subordinate. Although these rocks are not folded near the Fraser River Fault and related splays, they are intensely sheared.

4.2 Second Property Geology

The geochemical grid was mapped at a scale of 1:5,000 using a photographic enlargement of a government published 1:50,000 topographic map for control (fig. 7).

Lithology

The oldest rocks on the Second Property are a thick

sequence of coarse to fine grained clastic sedimentary rocks of the lower Cretaceous Jackass Mountain Group (Units Sd, SS, and Cg). Within the grid area, medium to thick bedded arkose and greywacke form over 90% of the group. Siltstone occurs locally as thin interbeds in the greywacke, while conglomerate and argillite form thicker beds within the greywacke.

Greywacke and arkose typically consist of 1 mm grains of feldspar, with lesser amounts of lithic fragments in a matrix of feldspar, muscovite and chlorite. Conglomerates, which were mapped near the western claim boundary, are polymictic with granite and volcanic clasts to 5 cm. The clasts are matrix supported.

In the east-central grid area, the Jackass Mountain sedimentary rocks are intruded by a stock of granodiorite about 700 meters in diameter (Unit Gd). The stock has a porphyritic border phase and a hypidiomorphic granular core. Elsewhere on the claims, the sedimentary rocks are cut by dykes and sills of feldspar porphyry (Unit FP). The feldspar porphyry, which is compositionally similar to the border phase of the stock, range from under a meter to over 10 meters thick. It is probable that these sills and dykes are apophyses of the granodiorite stock or other, still buried stocks. Both the granodiorite and feldspar porphyry are probably late Cretaceous or early Tertiary in age. A third intrusive body are quartz "eye" porphyry dykes (Unit QP). The quartz porphyry may be a late phase of the granodiorite or possibly related to the younger Eocene volcanic rocks. The close spacial relationship with the granodiorite and other feldspar porphyry dykes suggest that it is a late phase of the granodiorite.

The youngest rocks are andesite to basalt flows, breccias and tuffs of the Eocene volcanic rocks (Unit Tu). These volcanic rocks occur north west of the main splay of the Fraser River Fault, and do not occur within the grid area.

Structure

The structure in the Second property area is dominated by the north-northwesterly trending splay of the Fraser River Fault and related subsidiary faults. The main Fraser River Fault has juxtaposed Jackass Mountain Group rocks and Eocene volcanic rocks. A conjugate set of subsidiary faults and shears believed to be related to the Fraser River Fault splay, occur in the grid area. The two prominent trends are north northwest and east northeast. These structures dip moderately to steeply southwesterly and northwesterly respectively. Offsets across most faults appear to be minor, however, based on abrupt changes in bedding attitudes across west Second Creek, a major fault may be present. The absence of distinctive marker beds in the Jackass Group makes determination of relative movement difficult.

Throughout most of the grid area, the Jackass Mountain Group strata strikes northeasterly to northerly with moderate westerly dips. Subtle variations in the strike of the strata suggest the rocks are gently folded.

Alteration and Mineralization

Large portions of the grid area have been hydrothermally altered. The type and intensity of alteration is variable, but can be divided into five distinct types. These alteration assemblages are: carbonate, propylitic, argillic, and intense silicification.

Carbonate alteration is widespread throughout the grid area and consists of calcite veining and fracture filling. Because it is so widespread, the zone of carbonate veining was not outlined on figure 7.

Propylitic alteration is confined to a small area of siltstone

in upper West Second Creek. Alteration consists of chloritization, epidote and calcite veining. The siltstones within this zone contain finely disseminated pyrite.

Argillic alteration consists of kaolinization and clay alteration of the feldspars in both intrusive and sedimentary rocks. The intensity of argillization ranges from clouding of the feldspar grains to complete replacement by kaolinite. Carbonate veining accompanies the argillic alteration and is generally more intense in the argillic zone. Minor silicification in the form of chalcedonic veining is locally present. The area of argillic alteration measures 1,500 meter by 800 meter and occurs over much of the southeastern part of the grid.

Silicification consists of both fracture fillings and pervasive replacement of the rock. Quartz veins are characteristic of open space filling, with both drusy and banded textures. Prominent vein directions are east northeast and northwest. Vein dips are variable. Both argillic and carbonate alteration accompany the silicification. Within the intensely silicified zones, feldspars are transformed to assemblages of kaolinite and clay. Chalcedonic quartz and calcite are often interbanded in veins and quartz pseudo-morphs after calcite are present. Locally, silicification and accompanying argillic alteration is so intense as to make recognition of the host rock impossible. Trace amounts of pyrite, chalcopyrite, cinnabar and stibnite are occasionally present. Pyrite typically occurs as dissemination, while the other sulphides are restricted to quartz veins and dry fractures.

Six zones of intense silicification were found during mapping. These zones, numbered I to VI, are displayed on figure 7. Zone I is an east northeasterly trending 1,300 meter by 250 meter wide area of intensely silicified, argillically and carbonate altered greywacke and feldspar porphyry situated north of West Second Creek. The central portion of altered zone is well exposed

in bluffs and forms a conspicuous gossan. To the northeast and southwest, the zone disappears beneath overburden. From its surface trace, the zone appears to be near vertical or steeply dipping to the south.

Zone II is a northerly trending zone near the west property boundary. This zone of intense silicification and argillic alteration is poorly exposed in a series of small outcrops and sub-outcrops over a length of 900 meters. During mapping, three samples were collected from outcrops within the altered zone. All samples had less than 4 ppb gold.

Zone III lies south of Zone I and is well exposed in bluffs on the south valley wall of West Second Creek. The Zone is a northeasterly trending, still open 600 meter by 300 meter gossanous area, straddling the contact of the granodiorite stock and Jackass Group greywackes. Three rock samples were collected of altered rock. Sample 1-01, a selected sample of malachite stained chalcedonic quartz, contained 1520 ppb gold. A more representative panel sample, J10-1, taken from a 15 cm wide series of chalcedonic veins, contained only 16 ppb gold.

Zone IV occurs in the East Second Creek drainage and, like Zone III, straddles the granodiorite-greywacke contact. This still open zone is northeasterly oriented and measures 600 meters by 400 meters. This zone contains several large quartz and quartz-carbonate veins up to 2 meters thick. Cinnabar, stibnite and native sulphur were noted in some of the veins. One such vein was sampled across 20 cm and returned an assay of 397 ppb (J11-9-3). A grab sample from another vein assayed 698 ppb gold (DH 2). Other samples of veining and altered rock gave very low gold assays.

Zones V and VI are smaller northeasterly trending silicified zones. These zones are proximal to Zone IV, being separated by

overburden covered areas. It is possible that these smaller zones are offshoots of the larger Zone IV. No rock sampling of either Zone V or VI was done.

5. DISCUSSION

The presence of large areas of intensely silicified and argillically altered rock associated with highly anomalous arsenic and mercury, and low but anomalous gold, indicate potential on the Second Property for a large-tonnage, low-grade, epithermal-type gold deposit. The current program has highlighted eight specific targets that warrant further exploration.

The primary targets are alteration Zones I, III and IV. Secondary targets are gold and arsenic anomalies at grid co-ordinates 93 + 00 E and 107 + 00 N; 106 + 00 E and 109 + 00 N, and alteration Zone II. Third order targets are alteration Zones V and VI. Because of the size of these zones, it would be prudent to carry out detailed rock sampling to locate the most prospective portion of each zone to drill test.

6. RECOMMENDATIONS

The positive results of the 1987 geochemical and geological work, fully justify ongoing exploration of the Second Creek Property for a large-tonnage epithermal gold deposit. To this end, a two phase exploration program is recommended.

Phase One work would focus on the primary exploration targets, Alteration Zones I, III and IV, with a view to selecting drill sites. Concurrently, sampling, prospecting of the geochemical targets at grid co-ordinates 107 + 00N, 93 + 00 E and 108 + 00 N, 107 + 00 E and Alteration Zones II, V and VI, would be carried out. Work to be included in Phase One is:

1. Production of a base map of the grid area with 20 meter contour interval.
2. Rock sample and 1:500 scale mapping of Alteration Zones I, III, IV.
3. Prospecting and sampling of geochemical targets and Alteration Zones II, V and VI.

Cost of this work is estimated to be \$35,000.00.

Phase Two will drill test the priority targets developed by the Phase One program. Because of the high cost of building access roads and drill sites in Alteration Zones III and IV, a helicopter portable diamond drill should be used for drilling these zones. The cost of road access construction to Alteration Zone I would be much cheaper, hence this zone could be drill tested with either a rotary percussion or diamond drill. Assuming 900 meters of diamond drilling and 600 meters of percussion drilling, all up costs of Phase Two are estimated to be \$175,000.00.

7. REFERENCES

Duffell, McTaggard, 1950, Geological Survey of Canada Memoir
262

Livingstone, K.W., 1982, Geological and Geochemical Report on
The Carolyn Claims, Clinton Mining Division,
BCDM Assessment Report 10, 381.

Fox, P.E. 1982, Geological and Geochemical Report on the
Leon Claims, Clinton Mining Division,
BCDM Assessment Report

Tipper, H.W. Geological Survey of Canada Open File 534

8. CERTIFICATE

I, JOHN A. McCLINTOCK, do certify:

1. That I am a consulting geologist with offices at 32841 Ashley Way, Abbotsford, B.C.;
2. That I am a graduate of the University of British Columbia, B.Sc. Geology 1973, and have practiced my profession with various mining and/or exploration companies and as an independent geological consultant since graduating;
3. That I am a Professional Engineer registered with The Association of Profession Engineers in the Province of British Columbia;
4. That I am author of this report that is based on geological mapping and geochemical sampling that was carried on the Second Property during October and November 1987.



Dated at Abbotsford, British Columbia, this 25 day of April 1988.

APPENDIX I

COST STATEMENT

Analyses

Min En Labs	2500 Soil Samples (6 elements)	32,822.85	
	17 Rocks (Av ₁)	<u>175.25</u>	32,998.10

Consulting Geology

J. McClintock,	Oct. 25 to 28, Nov. 8 to 11 incl.		
	8 days @ \$350 per day	2,800.00	
R. Durfeld,	Ocy. 25 to 28, Nov. 7 to 11 incl.		
	9 days @ \$350 per day	<u>3,150.00</u>	5,950.00

Contract Geochemical Sampling

Durfeld Geological
3 km line cutting, 45.4 km of grid preparation
collection of 2500 soil samples, camp and equip-
ment rental, food and accommodation for 30 days
for 2 men, truck and ATV rental -
- all inclusive cost

33,500.00

Report Preparation

J. McClintock	7 days @ \$350/day	2,450.00	
R. Durfeld	2 days @ \$350/day	700.00	
Maps/Prints/Drafting/Typing		<u>800.00</u>	<u>3,950.00</u>

TOTAL

\$ 76,398.10

John H. McClintock

APPENDIX II
GEOCHEMICAL ANALYSES

(VALUES IN PPM)	AS	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
96E 10380N	.5	5	30	13	5	60	5	35
96E 10400N	.6	14	25	14	1	54	10	45
96E 10420N	.8	13	23	12	2	75	5	25
96E 10440N	.6	8	19	9	1	50	5	30
96E 10460N	1.0	19	28	11	2	68	5	30
96E 10480N	.7	12	20	9	1	66	10	25
96E 10500N	1.0	7	19	7	1	80	5	10
96E 10520N	.7	4	13	12	1	92	5	25
96E 10540N	.6	9	28	11	1	114	5	20
96E 10560N	.7	6	22	15	1	105	10	30
96E 10580N	.8	8	27	12	2	102	5	20
96E 10600N	.6	3	17	12	2	62	5	30
96E 10620N	.9	7	25	18	1	89	10	15
96E 10640N	1.0	6	24	16	2	79	5	25
96E 10660N	1.1	2	28	18	2	73	5	40
96E 10680N	1.1	7	26	14	1	73	5	20
96E 10700N	1.2	5	22	10	1	57	10	30
96E 10720N	1.0	2	14	12	2	60	5	30
96E 10740N	.9	1	12	10	2	62	5	15
96E 10760N	.8	2	21	13	2	104	5	25
96E 10780N	.7	1	13	13	1	74	10	35
96E 10800N	.9	5	63	14	1	59	5	55
96E 10820N	1.4	5	29	11	1	59	20	40
100E 10020N	.5	61	58	7	1	57	5	575
100E 10040N	.9	31	33	10	2	48	5	60
100E 10060N	.8	47	19	7	3	63	5	45
100E 10080N	.7	29	30	12	2	62	5	55
100E 10100N	.8	11	29	10	2	62	10	130
100E 10120N	.6	7	19	12	1	58	5	60
100E 10140N	.9	32	48	9	2	67	5	90
100E 10160N	.7	12	29	10	2	67	10	160
100E 10180N	.5	18	24	10	1	43	5	50
100E 10200N	.7	25	40	10	2	63	5	55
100E 10220N	.4	27	35	12	2	47	5	330
100E 10240N	.5	42	47	8	1	59	10	325
100E 10260N	.7	52	11	11	1	61	5	35
100E 10280N	.7	17	22	13	2	64	5	85
100E 10300N	.5	34	39	13	2	65	5	280
100E 10320N	.8	8	19	16	3	90	5	95
100E 10340N	.6	4	13	10	1	88	5	1665
100E 10360N	.7	28	28	12	3	78	10	95
100E 10380N	.8	49	46	5	1	74	5	280
100E 10400N	.3	7	9	8	1	51	5	45
100E 10420N	.4	32	45	6	1	72	5	50
100E 10440N	.6	36	46	7	3	70	10	45
100E 10460N	.6	19	35	10	4	89	30	60
100E 10480N	.7	8	21	13	1	88	5	40
100E 10500N	.8	6	21	12	2	77	5	60
100E 10520N	.8	16	24	10	1	86	5	35
100E 10540N	.7	13	38	8	1	74	5	50
100E 10560N	.7	12	17	14	2	80	10	60
100E 10580N	.6	12	14	10	1	62	5	30
100E 10600N	.4	15	32	15	4	79	5	45
100E 10620N	.4	2	14	11	1	59	20	30
100E 10640N	.5	10	24	9	2	55	5	115
100E 10660N	.7	5	26	10	1	89	5	100
100E 10680N	.4	6	21	4	2	64	10	30
100E 10700N	.5	2	13	11	1	72	5	45
100E 10720N	.3	1	8	9	2	46	5	35
100E 10740N	.5	1	9	8	1	64	5	30

(VALUES IN PPM)	AS	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
97E 10020N	.9	36	45	10	1	77	10	85
97E 10040N	.6	53	73	8	1	124	5	280
97E 10060N	.7	17	28	9	1	92	5	60
97E 10080N	.6	15	23	8	2	52	5	35
97E 10100N	.4	59	104	7	5	56	5	355
97E 10120N	.6	17	62	7	2	53	10	55
97E 10140N	.7	17	47	8	1	77	5	70
97E 10160N	.7	16	51	8	2	70	5	315
97E 10180N	.6	22	56	12	3	74	5	80
97E 10200N	.8	52	36	10	3	69	5	85
97E 10220N	.9	43	66	7	1	82	5	205
97E 10240N	.9	35	52	12	1	71	5	95
97E 10260N	1.0	37	48	9	1	74	10	110
97E 10280N	.6	64	47	7	2	67	5	245
97E 10300N	.9	216	59	7	5	79	5	130
97E 10320N	N/S							
97E 10340N	.6	79	46	15	3	77	5	95
97E 10360N	.8	96	66	8	4	83	5	135
97E 10380N	.7	44	40	7	2	68	5	80
97E 10400N	.6	19	23	9	1	54	10	35
97E 10420N	.8	31	22	12	1	65	5	55
97E 10440N	.7	43	27	11	2	78	5	80
97E 10460N	.8	205	54	49	5	129	15	80
97E 10480N	.7	50	45	11	1	74	5	45
97E 10500N	.9	19	36	9	1	77	5	50
97E 10520N	.5	19	50	4	3	59	5	130
97E 10540N	.5	12	46	11	1	61	5	60
97E 10560N	.4	3	12	11	1	41	10	30
97E 10580N	.6	5	18	12	4	66	5	40
97E 10600N	.6	2	11	13	1	102	5	35
97E 10620N	.7	15	21	16	1	66	5	25
97E 10640N	.9	20	28	14	1	87	10	25
97E 10660N	.9	10	25	11	1	66	20	15
97E 10680N	1.0	2	16	12	2	57	5	20
97E 10700N	1.2	5	26	12	2	77	20	25
97E 10720N	1.1	7	17	14	3	56	10	15
97E 10740N	1.2	5	16	8	2	105	15	10
97E 10760N	1.0	2	12	13	1	52	10	20
97E 10780N	.9	2	12	8	1	65	5	10
97E 10800N	.9	5	17	11	1	78	5	20
97E 10820N	1.2	2	11	12	2	73	5	50
97E 10840N	.8	24	11	21	3	81	5	15
96E 10020N	.6	25	45	9	2	93	5	35
96E 10040N	.9	15	21	11	3	77	10	35
96E 10060N	1.1	7	24	9	2	57	5	25
96E 10080N	.9	9	39	12	5	57	5	15
96E 10100N	.6	8	34	9	1	56	5	40
96E 10120N	1.0	4	25	10	2	62	5	15
96E 10140N	.9	13	48	13	1	79	10	40
96E 10160N	1.0	15	36	11	3	65	5	60
96E 10180N	.8	3	29	10	2	74	5	30
96E 10200N	.7	3	14	10	2	58	5	15
96E 10220N	.8	51	30	12	4	64	10	30
96E 10240N	.8	15	37	10	3	59	10	20
96E 10260N	.7	8	40	10	1	59	5	25
96E 10280N	.8	7	39	11	1	64	5	20
96E 10300N	.4	3	25	11	1	84	5	30
96E 10320N	.5	15	26	9	2	60	10	35
96E 10340N	.3	12	19	12	2	65	5	15
96E 10360N	.5	5	16	11	1	68	5	35

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
100E 10760N	.6	2	11	12	1	54	5	20
100E 10780N	.6	7	17	9	2	55	10	40
100E 10800N	.7	2	15	7	1	83	15	20
100E 10820N	.7	1	10	11	1	55	5	15
100E 10840N	.6	2	17	14	1	74	5	30
101E 10020N	.5	23	49	11	2	59	5	185
101E 10040N	.5	9	10	8	1	55	5	45
101E 10060N	.6	271	54	14	2	67	30	285
101E 10080N	.5	51	60	6	1	64	5	220
101E 10100N	.6	12	20	10	1	76	5	50
101E 10120N	.8	2	12	15	1	68	5	30
101E 10140N	.6	6	17	11	1	71	5	15
101E 10160N	.6	20	55	8	4	63	5	365
101E 10180N	.8	6	22	11	1	55	5	35
101E 10200N	.6	7	21	8	1	61	5	30
101E 10220N	.8	6	20	12	1	66	10	40
101E 10240N	.6	4	20	8	1	74	5	30
101E 10260N	.7	1	12	9	1	58	5	25
101E 10280N	.7	3	18	12	1	58	10	50
101E 10300N	.7	13	19	6	2	45	5	75
101E 10320N	.7	3	9	11	1	68	5	20
101E 10340N	.8	3	13	15	1	69	5	20
101E 10360N	.8	15	40	10	1	56	10	80
101E 10380N	.8	1	18	10	1	49	250	15
101E 10400N	.8	6	19	7	1	55	5	20
101E 10420N	.5	65	74	7	2	51	5	2490
101E 10440N	.5	28	40	7	1	57	5	85
101E 10460N	1.0	15	19	7	3	49	5	45
101E 10480N	.6	4	15	11	1	79	10	60
101E 10500N	.6	41	40	5	1	57	5	135
101E 10520N	.7	1	12	8	1	38	5	15
101E 10540N	.7	11	41	5	2	40	5	75
101E 10560N	.7	13	33	3	2	38	5	55
101E 10580N	.5	3	15	5	2	47	10	20
101E 10600N	.7	1	6	8	1	48	5	15
101E 10620N	.9	31	41	7	1	51	5	120
101E 10640N	.7	20	51	5	1	56	10	90
101E 10660N	.7	26	50	4	1	49	10	110
101E 10680N	.7	4	26	6	2	40	5	55
101E 10700N	.9	40	42	5	3	51	10	50
101E 10720N	.8	18	74	10	3	86	5	295
101E 10740N	.7	11	57	9	3	47	15	1615
101E 10760N	.7	15	27	15	1	49	5	95
101E 10780N	.8	30	70	5	1	56	10	360
101E 10800N	.7	29	72	11	1	60	15	2370
101E 10820N	.7	34	76	7	4	59	5	870
101E 10840N	.9	47	76	7	3	62	20	285
101E 10860N	.7	39	64	3	1	47	10	1295
101E 10880N	.7	59	81	7	4	64	25	655
101E 10900N	.7	38	85	8	2	64	20	685
95E 10020N	.9	1	22	9	2	65	10	40
95E 10040N	.7	3	17	5	2	49	15	25
95E 10060N	.7	6	39	9	1	64	5	30
95E 10080N	.9	1	9	11	2	54	5	20
95E 10100N	.9	1	9	9	1	43	5	20
95E 10120N	.9	8	38	12	1	51	10	45
95E 10140N	.9	4	19	6	1	81	5	40
95E 10160N	.7	3	20	11	1	48	5	45
95E 10180N	.8	4	33	11	5	58	5	60
95E 10200N	.9	3	36	13	1	49	5	60

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
95E 10220N	.7	5	48	12	6	54	5	45
95E 10240N	.8	2	34	14	1	71	5	40
95E 10260N	.8	1	14	11	1	49	5	25
95E 10280N	1.1	2	28	12	1	53	5	30
95E 10300N	1.0	1	16	12	1	52	5	20
95E 10320N	1.0	2	20	13	1	52	5	15
95E 10340N	1.1	1	19	14	2	62	5	25
95E 10360N	.9	1	21	15	2	67	5	20
95E 10380N	.8	1	16	7	3	49	5	15
95E 10400N	.8	1	15	10	1	65	5	15
95E 10420N	.8	1	17	14	1	65	5	20
95E 10440N	1.1	8	31	12	2	71	5	10
95E 10460N	1.2	7	22	10	1	84	5	25
95E 10480N	1.1	3	15	12	2	97	10	25
95E 10500N	1.0	1	10	10	1	56	10	10
95E 10520N	.8	9	27	9	1	67	5	20
95E 10540N	1.1	3	25	16	4	57	20	10
95E 10560N	.9	15	71	16	1	72	10	20
95E 10580N	.8	7	43	14	1	80	5	25
95E 10600N	.7	8	36	8	4	78	5	30
95E 10620N	.7	12	45	13	4	73	20	25
95E 10640N	.8	9	47	22	6	76	5	20
95E 10660N	.7	15	54	18	6	69	10	30
95E 10680N	.7	7	59	20	8	70	5	60
95E 10700N	.7	10	41	14	6	67	5	30
95E 10720N	.8	3	22	12	1	58	5	30
95E 10740N	1.0	5	24	15	3	74	10	20
95E 10760N	.8	1	9	9	3	70	5	20
95E 10780N	.7	6	15	24	1	106	10	15
95E 10800N	1.0	49	35	62	1	127	110	25
103E 9300N	.2	1	11	10	2	36	5	20
103E 9320N	.2	2	10	11	1	30	5	15
103E 9340N	.4	2	59	12	1	38	5	10
103E 9360N	.2	2	17	11	1	30	5	15
103E 9380N	.2	7	26	4	3	32	5	25
103E 9400N	.1	9	22	10	1	32	5	15
103E 9420N	.1	14	14	7	1	39	10	15
103E 9440N	.1	1	4	6	1	27	5	25
103E 9460N	.1	1	14	10	1	53	10	15
103E 9480N	.2	12	32	8	1	41	5	25
103E 9500N	.2	163	232	10	40	66	15	4990
103E 9520N	.1	30	111	7	5	50	5	510
103E 9540N	.2	22	226	12	3	54	5	965
103E 9560N	.3	14	78	9	1	46	10	80
103E 9580N	.1	18	44	9	5	36	5	460
103E 9600N	.1	109	43	7	7	39	5	220
103E 9620N	.2	34	67	10	7	39	5	380
103E 9640N	.6	30	116	11	1	55	5	280
103E 9660N	.1	112	64	27	9	82	15	340
103E 9680N	.3	15	18	14	3	72	5	115
103E 9700N	.1	75	135	5	3	47	5	170
103E 9720N	.1	45	50	6	2	29	10	3490
103E 9740N	.1	10	75	6	4	71	5	470
103E 9760N	.3	10	58	7	4	48	10	110
103E 9780N	.3	4	37	10	1	53	5	85
103E 9800N	.5	14	108	8	6	50	5	3490
103E 9820N	.1	10	64	8	5	45	5	620
103E 9840N	.3	9	34	8	4	55	5	440
103E 9860N	.2	3	15	8	2	46	5	25
103E 9880N	.3	4	25	11	1	64	5	215

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
103E 9900N	.4	2	11	15	3	44	5	70
103E 9920N	.8	2	16	14	1	44	5	455
103E 9940N	.6	8	28	7	5	46	10	270
103E 9960N	.5	4	16	11	5	41	5	170
103E 9980N	1.0	4	9	12	1	35	5	25
103E BL	1.0	4	14	10	1	58	5	20
103E 10020N	1.0	2	13	12	1	79	5	20
103E 10040N	.9	6	20	13	4	66	5	185
103E 10060N	.9	5	11	13	2	64	15	2860
103E 10080N	.7	1	9	11	1	50	10	105
103E 10100N	1.0	3	13	28	1	75	5	310
103E 10120N	.9	5	11	12	1	74	10	140
103E 10140N	1.0	8	19	10	3	36	5	1165
103E 10160N	.9	3	11	15	1	68	5	50
103E 10180N	1.1	5	18	10	1	55	10	65
103E 10200N	1.0	5	17	13	1	67	5	55
103E 10220N	.9	5	14	11	1	79	5	255
103E 10240N	1.1	6	10	11	1	40	5	35
103E 10260N	1.0	9	15	13	1	52	5	30
103E 10280N	1.1	9	20	18	1	47	10	230
103E 10300N	.6	7	17	12	1	31	10	200
103E 10320N	.8	2	15	14	1	49	5	45
103E 10340N	.9	5	19	13	1	47	5	585
103E 10360N	1.1	5	13	11	1	91	5	45
103E 10380N	1.0	9	22	10	1	48	5	2985
103E 10400N	1.3	6	17	13	1	105	5	40
103E 10420N	.9	6	9	10	1	112	5	25
103E 10440N	.7	21	63	12	1	44	10	3360
103E 10460N	.4	10	27	7	2	29	5	24610
103E 10480N	.8	29	88	11	3	55	5	685
103E 10500N	.8	2	17	8	1	56	5	45
93E 10020N	.7	4	9	14	3	88	20	40
93E 10040N	.9	1	10	14	1	59	20	45
93E 10060N	.9	2	8	10	2	40	15	25
93E 10080N	.9	1	8	11	1	68	10	25
93E 10100N	.9	1	10	10	1	63	5	20
93E 10120N	.8	2	12	9	1	68	5	20
93E 10140N	.9	1	12	14	3	86	5	25
93E 10160N	.9	1	9	12	1	55	10	25
93E 10180N	1.0	1	8	9	2	51	15	10
93E 10200N	.9	2	10	13	3	62	5	15
93E 10220N	.9	4	13	15	1	68	15	10
93E 10240N	.4	1	9	9	1	56	5	5
93E 10260N	.9	1	18	13	1	67	5	10
93E 10280N	.8	1	8	9	1	51	5	5
93E 10300N	1.1	4	19	13	2	54	10	10
93E 10320N	.9	1	14	11	1	59	15	15
93E 10340N	1.2	4	17	10	2	59	5	20
93E 10360N	.9	1	9	11	1	57	10	10
93E 10380N	1.1	7	38	15	2	71	5	25
93E 10400N	.8	2	11	7	2	64	5	10
93E 10420N	.8	2	10	8	1	62	10	15
93E 10440N	1.0	7	18	10	1	62	10	10
93E 10460N	.9	6	14	11	1	76	240	20
93E 10480N	.7	7	15	13	1	49	5	10
93E 10500N	.8	5	10	8	1	41	5	10
93E 10520N	.9	3	10	11	1	49	15	20
93E 10540N	.9	2	14	12	1	73	10	10
93E 10560N	.7	10	24	11	3	58	10	15
93E 10580N	.8	4	10	12	1	44	5	20

PROJECT NO: SECOND GRID

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1914/P11+12

ATTENTION: ALVIN JACKSON

(604)980-5814 OR (604)988-4524

‡ TYPE SOIL GEOCHEM ‡ DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
93E 10600N	1.1	35	19	18	1	122	5	70
93E 10620N	1.3	329	29	158	1	245	240	85
93E 10640N	1.4	285	22	121	1	139	125	105
93E 10660N	.7	36	13	20	1	94	15	55
93E 10680N	.7	29	13	18	2	71	5	45
93E 10700N	.6	82	21	15	2	59	20	35
93E 10720N	.8	31	29	18	1	60	70	40
93E 10740N	.9	18	17	15	1	69	10	20
93E 10760N	.8	6	12	12	3	66	5	15
93E 10780N	.9	6	17	11	3	78	5	25
93E 10800N	.9	7	21	15	1	73	10	30
105E 9340N	1.1	7	27	12	1	40	10	35
105E 9360N	1.0	1	10	7	1	40	5	20
105E 9380N	1.2	10	47	11	2	64	5	20
105E 9400N	1.2	3	13	12	2	44	10	20
105E 9420N	1.0	3	15	14	2	51	5	25
105E 9440N	.9	1	7	12	1	42	5	10
105E 9460N	.9	3	8	11	1	43	5	5
105E 9480N	.9	44	213	9	2	59	15	350
105E 9500N	1.1	9	33	9	2	64	5	30
105E 9520N	.9	9	34	11	2	56	5	135
105E 9540N	1.2	4	9	11	3	39	5	75
105E 9560N	.8	2	12	10	1	48	20	145
105E 9580N	1.0	2	8	12	1	60	10	30
105E 9600N	.9	17	187	6	5	60	5	735
105E 9620N	.8	12	113	7	4	59	5	745
105E 9640N	.9	5	103	8	5	61	5	555
105E 9660N	1.0	18	136	7	14	53	25	4235
105E 9680N	.8	43	45	24	11	63	15	5235
105E 9700N	.9	18	33	21	4	67	5	350
105E 9720N	.7	15	35	10	2	51	5	325
105E 9740N	.5	55	80	11	10	51	10	1140
105E 9760N	.6	103	91	12	16	45	10	195
105E 9780N	.7	62	60	11	6	38	5	95
105E 9800N	.8	41	60	8	4	55	5	45
105E 9820N	.9	38	50	10	3	74	5	65
105E 9840N	.9	52	77	12	4	105	10	60
105E 9860N	1.2	4	36	7	3	52	10	520
105E 9880N	.9	5	41	7	1	43	5	795
105E 9900N	.9	6	37	7	2	38	5	790
105E 9920N	.9	8	41	11	2	49	5	3365
105E 9940N	.5	4	17	6	3	30	5	5365
105E 9960N	.7	5	14	9	1	64	5	75
105E 9980N	.8	5	35	5	1	64	20	720
105E BL	.9	5	19	9	1	44	5	660
102E 10500N	1.1	3	16	13	2	42	5	325
102E 10520N	1.1	8	20	15	1	42	5	840
102E 10540N	.4	14	23	4	1	29	5	6615
102E 10560N	.3	14	13	3	1	34	5	4740
102E 10580N	.9	18	113	5	1	50	10	330
102E 10600N	.9	10	35	10	1	68	5	40
102E 10620N	1.0	11	56	13	2	64	5	30
102E 10640N	1.0	2	18	12	1	55	5	30
102E 10660N	1.2	18	72	9	1	69	10	50
102E 10680N	.5	22	67	6	4	55	5	50
102E 10700N	.9	24	61	5	2	68	5	125
102E 10720N	.9	98	88	10	17	45	5	440
102E 10740N	1.1	13	35	10	1	42	5	85
102E 10760N	1.1	5	16	12	1	136	5	10
102E 10780N	1.1	5	16	9	1	48	10	90

COMPANY: CYPRUS MINERALS

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: SECOND GRID

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1914/P13

ATTENTION: ALVIN JACKSON

(604)980-5814 DR (604)988-4524

TYPE SOIL GEOCHEM

DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
102E 10800N	.6	2	14	10	3	51	5	30
102E 10820N	.7	1	13	10	1	75	5	30
102E 10840N	.9	7	21	12	1	44	5	330
102E 10860N	.8	2	11	13	1	54	5	15
102E 10880N	.9	2	11	11	1	49	5	20
102E 10900N	.8	1	9	10	1	48	5	15

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7K 1T2

(604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Analytical Report

Company: CYPRUS MINERALS
Project: SECOND CLAIMS
Attention: A. JACKSON

File: 7-2016
Date: DEC 9/87
Type: ROCK GEOCHEM

Date Samples Received : DEC 2/87
Samples Submitted by : A. JACKSON

Report on 17 ROCKS..... Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:
1. CYPRUS MINERALS, VANCOUVER, B.C.
2.
3.

Samples: Sieved to mesh Ground to mesh -80.....

Compared samples stored: X..... discarded:
rejects stored: discarded: X.....

Methods of analysis:
AU-FIRE.

Remarks

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

TELE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: CYPRUS
Project: SECOND CLAIMS
Attention: A. JACKSON

File: 7-2016/PJ
Date: DEC 9/87
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number AU-FIRE PFB

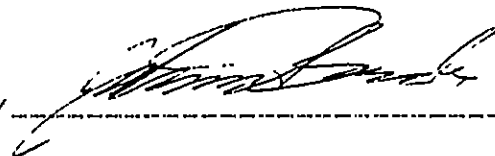
J10-1 16
J10-2 2
J11-9-1 3
J11-9-2 4
J11-9-3 397

J11-1 1
J11-2 4
J11-3 3
J11-4 2
R-11-9-1 2

R-11-9-2 1
R-11-9-3 1
R-11-9-4 3
R-11-9-5 4
DH2 698

11-B-R-1 6
1-01 1520

Certified by



MIN-EN LABORATORIES LTD.

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 DR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/PL+2
 TYPE SOIL BEDCHEN DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
BL 8325E	.7	8	22	9	1	40	50	55
BL 8350E	.7	8	23	6	3	67	5	40
BL 8375E	.3	1	8	9	1	44	5	40
BL 8425E	.7	12	41	5	1	75	5	60
BL 8450E	.5	3	13	7	2	46	5	35
BL 8475E	.4	1	13	8	1	48	5	25
BL 8525E	.7	9	19	9	3	46	5	35
BL 8550E	.8	6	18	9	1	42	5	45
BL 8575E	.4	23	55	7	1	57	5	105
BL 8625E	.8	8	27	6	1	62	5	30
BL 8650E	.6	6	19	10	1	35	5	35
BL 8675E	.8	6	20	8	1	57	5	65
BL 8725E	.5	2	18	10	1	55	5	45
BL 8750E	.7	7	18	5	1	38	5	85
BL 8775E	.7	5	22	5	3	77	10	3375
BL 8825E	1.2	10	34	9	1	48	10	50
BL 8850E	.6	1	9	6	2	31	5	35
BL 8875E	.9	2	18	5	1	72	5	25
BL 8925E	.7	1	8	8	2	54	5	45
BL 8950E	.9	10	33	7	1	91	5	90
BL 8975E	.4	1	7	11	2	35	5	30
BL 9025E	.7	2	16	13	1	51	5	35
BL 9050E	.6	1	15	8	1	69	5	35
BL 9075E	.7	15	43	9	1	74	5	55
BL 9125E	.7	1	11	6	2	49	5	40
BL 9150E	.8	13	16	9	1	174	5	35
BL 9175E	.3	1	8	8	2	54	5	30
BL 9225E	.6	2	16	7	3	52	5	45
BL 9250E	.7	11	29	3	4	56	5	85
BL 9275E	.5	1	10	6	1	44	5	40
BL 9325E	.7	1	6	11	1	85	5	25
BL 9350E	.5	1	5	8	2	50	10	40
BL 9375E	.7	1	7	10	2	66	5	25
BL 9425E	.6	1	10	6	1	99	10	25
BL 9450E	.6	1	7	6	2	72	5	35
BL 9475E	.7	5	24	11	3	87	5	40
BL 9525E	.8	2	11	9	2	74	5	25
BL 9550E	.5	6	11	9	1	66	5	30
BL 9575E	.7	10	22	5	2	58	5	45
BL 9625E	.7	27	56	7	2	90	5	80
BL 9650E	.7	19	44	7	3	140	5	40
BL 9675E	.5	45	66	5	2	83	5	110
BL 9725E	.5	14	26	10	2	46	5	150
BL 9750E	.5	21	16	7	1	45	5	450
BL 9775E	40M .5	30	55	7	1	116	10	380
BL 9825E	.6	62	148	6	5	79	5	130
BL 9850E	.6	27	60	9	1	98	5	75
BEE9875E	.5	20	42	5	1	33	5	1660
BL 9925E	.5	36	66	6	1	54	5	150
BL 9950E	.5	65	75	7	4	50	10	445
BL 9975E	.5	74	58	5	2	52	5	985
EL 10025E	.7	153	61	6	9	74	5	370
BL 10050E	.7	47	26	7	1	57	5	130
BL 10075E	.6	25	25	8	3	68	5	100
BL 10125E	.5	15	49	7	4	55	5	810
BL 10150E	.8	16	41	7	3	68	10	160
BL 10175E	.6	13	46	8	1	46	5	390
BL 10225E	.7	2	13	12	3	61	5	50
BL 10250E	.6	1	7	11	2	63	5	155
BL 10275E	.6	1	11	11	2	47	5	35

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604) 980-5814 OR (604) 988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P3+4
 * TYPE SOIL BEDDEN * DATE: DEC 7, 1987

(VALUES IN PPM)	AS	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
BL 10325E	.5	1	9	9	1	53	5	35
BL 10350E	.7	2	16	10	3	49	10	105
BL 10375E	.8	1	11	8	1	66	5	55
BL 10425E	.7	3	16	10	3	50	5	250
BL 10450E	.7	2	15	8	2	42	5	1850
BL 10475E	.5	2	12	9	2	35	5	210
BL 11125E	.8	45	51	11	1	78	5	45
BL 11150E	.7	9	11	10	1	63	5	45
BL 11175E	.5	145	33	10	10	120	5	410
BL 11225E	.7	54	91	8	2	69	5	210
BL 11250E	.7	50	33	10	2	67	5	45
BL 11275E	.7	27	52	8	3	62	5	160
1000N 10525E	.5	6	15	5	2	41	5	2050
1000N 10550E	.7	22	12	5	3	48	5	3000
1000N 10575E	.5	16	21	4	1	30	10	5750
1000N 10625E	.5	10	10	7	1	40	5	4625
1000N 10650E	.7	19	37	10	4	49	5	1450
1000N 10675E 40M	.7	9	16	5	3	77	5	1520
1000N 10725E	1.0	10	25	9	1	61	5	185
1000N 10750E	.8	11	24	6	2	47	5	795
1000N 10775E	1.0	11	10	9	2	47	5	935
1000N 10825E	.7	4	20	8	1	38	5	60
1000N 10850E	.5	1	12	10	1	49	10	70
1000N 10875E	.7	7	50	9	2	52	5	65
1000N 10925E	.6	1	7	5	1	28	5	35
1000N 10950E	.7	1	9	7	2	40	10	35
1000N 10975E	.7	1	4	9	1	30	10	25
1000N 11025E	.9	9	37	6	4	61	10	75
1000N 11050E	.9	2	11	9	1	38	5	40
1000N 11075E	.7	1	9	5	2	49	5	35
B3E 9760N	1.0	77	39	11	16	75	20	165
B3E 9780N	.7	3	20	15	1	41	10	35
B3E 9800N	1.0	3	21	13	1	53	5	55
B3E 9820N	.7	1	12	9	1	61	5	50
B3E 9840N	.8	5	19	12	1	80	5	40
B3E 9860N	1.0	3	11	11	2	64	5	50
B3E 9880N	.7	1	8	8	1	45	10	20
B3E 9900N	.7	2	9	8	2	35	5	35
B3E 9920N	.6	6	15	31	1	64	5	25
B3E 9940N	.8	1	6	7	1	35	5	35
B3E 9960N	.6	1	9	9	2	50	5	30
B3E 9980N	.6	4	16	9	2	41	5	25
B3E BL	.8	23	44	8	2	60	5	45
B3E 10020N	1.0	3	25	11	3	88	5	35
B3E 10040N	.9	3	17	7	1	46	10	25
B3E 10060N	.8	1	6	9	1	30	5	25
B3E 10080N	1.0	5	17	12	2	61	5	60
B3E 10100N	.8	2	7	10	1	49	10	25
B3E 10120N	.9	3	12	9	3	62	5	60
B3E 10140N	.7	10	21	13	2	43	5	50
B3E 10160N	.8	16	23	5	1	65	5	40
B3E 10180N	.7	6	13	9	2	52	5	55
B3E 10200N	.9	15	22	6	2	56	5	35
B3E 10220N	.8	2	9	11	2	89	5	25
B3E 10240N	.7	1	8	8	2	75	5	35
B3E 10260N	.8	5	29	13	5	92	5	40
B3E 10280N	.8	6	33	14	1	70	5	35
B3E 10300N	1.0	7	24	12	1	52	10	40
B3E 10320N	.7	12	41	8	7	75	5	40
B3E 10340N	.8	33	22	9	1	51	5	25

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

KIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P5+6
 * TYPE BOIL BEDDCHEN * DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	BB	ZN	AU-PPB	HB-PPB
B4E 9640N	1.0	13	34	11	1	75	10	35
B4E 9660N	.8	1	6	8	2	61	5	25
B4E 9680N	.8	4	10	8	1	59	5	35
B4E 9700N	.8	6	19	11	1	67	5	30
B4E 9720N	1.1	24	54	9	1	84	5	50
B4E 9740N	.4	1	8	10	1	40	10	30
B4E 9760N	.7	3	10	11	2	48	10	35
B4E 9780N	.5	2	10	11	3	49	5	35
B4E 9800N	.6	1	8	6	1	39	5	50
B4E 9820N	.6	1	8	5	1	85	5	15
B4E 9840N	.7	5	12	10	2	46	5	40
B4E 9860N	.9	3	10	14	2	59	10	35
B4E 9880N	.9	10	18	14	2	66	5	40
B4E 9900N	.9	57	92	8	10	64	10	80
B4E 9920N	.7	5	17	14	3	48	10	40
B4E 9940N	.7	7	35	10	1	78	15	250
B4E 9960N	.9	8	23	11	2	48	10	105
B4E 9980N	1.0	42	102	5	2	52	10	225
B4E BL	.8	1	7	6	1	54	5	30
B4E 10020N	.8	24	53	10	1	68	5	175
B4E 10040N	.9	10	25	9	1	70	5	45
B4E 10060N	.7	17	58	7	3	54	5	90
B4E 10080N	1.0	14	37	9	2	96	20	40
B4E 10100N	.8	3	12	8	1	73	10	210
B4E 10120N	.8	15	33	9	2	73	10	85
B4E 10140N	1.1	16	30	12	2	58	35	60
B4E 10160N	1.1	22	27	10	3	66	5	35
B4E 10180N	1.1	7	14	10	1	104	10	40
B4E 10200N	.7	1	6	9	1	54	10	25
B4E 10220N	.8	7	13	11	1	114	5	30
B4E 10240N	.7	1	10	13	1	72	5	25
B4E 10260N	.5	3	38	10	1	25	5	25
B4E 10280N	.6	7	24	12	5	41	5	30
B4E 10300N	.4	8	63	10	3	50	5	25
B4E 10320N	.7	17	45	11	2	66	5	30
B4E 10340N	.8	29	25	7	4	155	10	35
B4E 10360N	.7	6	14	10	1	67	5	30
B5E 9520N	.7	11	14	10	1	50	5	40
B5E 9540N	.8	1	3	10	1	47	5	20
B5E 9560N	.7	1	6	10	1	48	10	35
B5E 9580N	.7	1	8	8	1	53	5	25
B5E 9600N	1.0	5	12	11	1	193	5	30
B5E 9620N	1.0	15	36	9	1	93	5	40
B5E 9640N	.9	2	8	11	1	54	10	25
B5E 9660N	1.0	2	7	12	1	54	10	25
B5E 9680N	.9	6	22	12	1	113	5	30
B5E 9700N	.7	6	16	8	1	54	5	25
B5E 9720N	1.0	12	31	9	3	62	5	35
B5E 9740N	.9	3	16	11	1	104	5	20
B5E 9760N	.9	1	13	13	1	164	5	25
B5E 9780N	1.0	32	105	5	2	76	10	50
B5E 9800N	.7	1	10	11	2	27	5	20
B5E 9820N	1.0	7	24	14	1	51	5	35
B5E 9840N	.9	11	32	11	1	81	5	25
B5E 9860N	.8	2	11	7	1	68	5	30
B5E 9880N	.7	11	27	9	2	45	5	85
B5E 9900N	.8	5	17	10	1	59	5	40
B5E 9920N	.7	7	16	11	1	49	5	45
B5E 9940N	.5	2	9	12	2	32	5	30
B5E 9960N	.4	1	8	10	1	33	10	35

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P7+8
 * TYPE SOIL GEOCHEM * DATE: DEC 7, 1987

(VALUES IN PPM)	AS	AS	CU	PB	SB	ZN	AU-PPB	HB-PPB
B5E 9980N	.7	19	34	9	1	54	5	35
B5E BL	.8	32	52	8	1	53	5	30
B5E 10020N	.6	8	24	12	1	38	5	20
B5E 10040N	.6	6	17	10	1	30	5	20
B5E 10060N	.5	23	26	9	4	37	5	25
B5E 10080N	.8	11	24	13	2	63	10	30
B5E 10100N	.6	2	9	8	1	31	5	20
B5E 10120N	.7	1	10	11	1	83	5	25
B5E 10140N	.6	9	16	10	2	38	5	25
B5E 10160N	.7	1	11	11	2	72	5	25
B5E 10180N	.7	3	14	14	1	45	5	25
B5E 10200N	.7	1	10	6	1	59	10	20
B5E 10220N	.6	1	6	9	1	32	5	20
B5E 10240N	.8	7	13	13	1	57	5	25
B5E 10260N	.7	8	55	16	4	59	5	30
B5E 10280N	.9	9	30	15	1	46	5	25
B5E 10300N	.6	4	25	15	1	38	5	25
B5E 10320N	.8	3	21	11	1	39	5	25
B6E 9380N	.8	13	21	11	3	59	5	30
B6E 9400N	.4	1	6	7	1	31	5	35
B6E 9420N	.7	15	30	8	4	77	5	45
B6E 9440N	.8	1	7	8	1	70	5	25
B6E 9460N	.7	2	7	11	1	62	5	25
B6E 9480N	.4	2	9	9	1	54	5	20
B6E 9500N	.9	7	10	12	1	69	10	30
B6E 9520N	.6	1	5	7	1	43	5	25
B6E 9540N	.7	3	7	8	1	60	5	30
B6E 9560N	.7	8	12	11	1	72	10	35
B6E 9580N	.8	16	24	12	1	113	5	30
B6E 9600N	.7	2	8	13	3	100	5	25
B6E 9620N	.8	2	12	12	1	121	5	40
B6E 9640N	.5	3	10	9	1	62	5	35
B6E 9660N	.7	5	10	12	1	75	5	35
B6E 9680N	.7	4	11	11	2	74	5	30
B6E 9700N	.6	1	8	12	1	67	5	30
B6E 9720N	.5	5	12	9	1	41	5	25
B6E 9740N	.5	1	21	11	1	53	5	25
B6E 9760N	.8	13	19	9	1	55	5	35
B6E 9780N	.8	31	96	5	5	44	10	130
B6E 9800N	.6	9	23	9	1	65	5	25
B6E 9820N	.8	4	22	12	1	79	5	20
B6E 9840N	.8	10	22	11	1	128	5	25
B6E 9860N	.6	3	15	11	2	84	5	30
B6E 9880N	.9	10	36	10	1	72	10	30
B6E 9900N	.7	7	18	10	1	79	10	55
B6E 9920N	.6	5	15	8	2	48	10	50
B6E 9940N	.6	1	7	8	1	48	5	25
B6E 9960N	.7	9	27	8	1	42	5	35
B6E 9980N	.8	13	40	10	2	51	5	100
B6E BL	.5	1	11	9	1	44	10	25
B6E 10020N	.7	1	4	6	1	27	10	25
B6E 10040N	.7	1	7	10	1	31	5	30
B6E 10060N	.7	2	11	8	2	37	5	25
B6E 10080N	.6	1	6	9	1	49	5	25
B6E 10100N	.9	11	23	9	1	88	10	35
B6E 10120N	.8	1	13	11	1	91	5	30
B6E 10140N	.6	1	7	5	1	36	10	25
B6E 10160N	.7	6	10	11	1	43	10	30
B6E 10180N	.6	10	14	11	1	50	5	30
B6E 10200N 40N	.6	169	51	7	2	64	25	70

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2
 (604)980-5814 DR (604)980-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P9+10
 * TYPE GDJL BEDCHEN * DATE: DEC 7, 1987

(VALUES IN PPM)	AS	AR	CU	PB	SB	ZN	AU-PPB	HG-PPB
86E 10220N	.5	44	60	18	1	65	5	40
86E 10240N	.5	95	76	11	6	59	5	55
86E 10260N	.3	25	110	17	5	58	20	60
86E 10280N	.8	294	94	17	14	76	30	105
87E 9260N 40M	.7	2	7	8	1	48	5	30
87E 9280N	.8	14	20	13	4	75	5	45
87E 9300N	.6	9	16	14	1	99	10	50
87E 9320N	.8	9	17	12	4	63	5	45
87E 9340N	.4	1	4	6	1	33	5	25
87E 9360N	.6	3	8	10	1	44	5	35
87E 9380N	.6	1	5	6	1	54	10	30
87E 9400N	.5	1	4	7	1	26	15	20
87E 9420N	.6	3	7	6	1	44	5	25
87E 9440N	.9	26	32	7	1	67	5	95
87E 9460N	.8	10	14	11	1	56	10	30
87E 9480N	.8	19	21	9	2	54	5	25
87E 9500N	.6	15	19	10	1	72	5	35
87E 9520N	.7	1	10	13	1	74	5	25
87E 9540N	.8	3	13	11	3	67	5	30
87E 9560N	.7	3	14	10	3	63	10	30
87E 9580N	.8	1	4	8	1	34	20	15
87E 9600N	.7	1	9	10	1	69	5	20
87E 9620N	.6	1	7	10	1	59	5	20
87E 9640N	.6	7	16	12	1	61	10	35
87E 9660N	.6	2	7	10	1	27	10	20
87E 9680N	1.0	28	69	11	2	58	5	100
87E 9700N	.8	3	15	11	2	60	5	20
87E 9720N	.8	4	16	10	1	72	5	40
87E 9740N	.8	10	32	9	1	81	10	30
87E 9760N	.8	8	21	8	1	49	10	40
87E 9780N	.7	23	53	14	1	58	5	50
87E 9800N	.4	1	7	6	1	27	5	35
87E 9820N	.7	18	31	11	2	61	5	30
87E 9840N	.7	29	62	9	4	46	5	80
87E 9860N	1.0	7	16	10	2	38	10	20
87E 9880N	.8	2	10	9	1	70	5	30
87E 9900N	.8	6	12	7	2	45	5	35
87E 9920N	1.0	11	20	11	3	58	5	55
87E 9940N	.9	10	20	6	2	41	5	85
87E 9960N	.7	4	8	7	2	29	5	40
87E 9980N	.7	2	10	8	2	31	10	50
87E BL	.7	2	5	8	1	25	5	50
87E 10020N	1.0	7	13	14	3	40	5	40
87E 10040N	.8	2	8	13	2	31	10	30
87E 10060N	.9	8	16	7	3	47	5	50
87E 10080N	1.3	9	20	11	2	66	5	35
87E 10100N	.8	5	11	10	1	84	10	25
87E 10120N	1.0	8	14	7	2	68	5	35
87E 10140N	.8	2	7	9	2	47	5	25
87E 10160N	.8	5	12	10	2	72	5	30
87E 10180N	.7	2	6	8	1	50	5	35
87E 10200N	.7	14	20	10	2	63	5	25
87E 10220N	.9	10	27	15	2	83	10	30
87E 10240N	.8	9	18	14	2	63	5	25
87E 10260N	.9	3	11	10	1	51	5	15
87E 10280N	.8	5	16	9	1	86	5	10
87E 10300N	.7	7	30	13	3	54	10	20
87E 10320N	.8	5	13	12	1	61	5	20
87E 10340N	.8	3	15	12	2	53	30	15
87E 10360N	.7	1	12	7	3	62	5	20

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)980-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P11+12
 * TYPE SDIL BEDDING * DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	ALL-PPB	HG-PPB
BTE 10380N	.6	6	34	19	1	56	5	20
BTE 10400N	1.0	8	49	20	2	32	10	25
BBE 9200N	.7	6	8	8	2	42	5	20
BBE 9220N	.5	2	6	11	1	77	5	10
BBE 9240N	.7	1	4	7	1	34	5	15
BBE 9260N	.7	9	13	12	2	55	5	15
BBE 9280N	.8	7	16	10	2	87	10	15
BBE 9300N	.8	5	11	12	2	65	5	10
BBE 9320N	.9	8	13	7	1	72	5	30
BBE 9340N	.6	3	6	9	2	40	5	10
BBE 9360N	.7	11	14	10	2	66	10	25
BBE 9380N	.7	8	10	9	1	45	10	10
BBE 9400N	.6	4	12	10	1	54	10	15
BBE 9420N	.9	7	11	7	3	31	5	20
BBE 9440N	.9	11	11	10	3	55	10	20
BBE 9460N	1.2	21	20	11	4	38	5	20
BBE 9480N	1.0	7	13	5	2	97	5	35
BBE 9500N	.8	6	12	12	1	57	5	15
BBE 9520N	.7	6	10	10	1	47	5	25
BBE 9540N	1.0	6	8	10	2	43	5	40
BBE 9560N	.7	4	8	7	2	64	10	25
BBE 9580N	.5	2	9	7	1	34	10	15
BBE 9600N	.7	54	50	7	5	84	30	80
BBE 9620N	.7	5	13	10	2	38	10	15
BBE 9640N	.7	11	17	10	2	57	5	15
BBE 9660N	.7	2	5	8	2	59	10	25
BBE 9680N	.9	5	15	13	1	87	10	20
BBE 9700N	.8	22	44	9	2	60	5	30
BBE 9720N	.7	7	20	8	2	42	10	20
BBE 9740N	.8	2	10	8	2	65	20	25
BBE 9760N	.9	17	43	8	3	58	15	95
BBE 9780N	.7	2	9	6	2	42	20	40
BBE 9800N	.6	12	15	5	1	50	5	60
BBE 9820N	.7	57	28	10	6	61	10	400
BBE 9840N	.7	3	7	6	1	51	10	35
BBE 9860N	1.0	16	31	9	2	48	5	170
BBE 9880N	1.0	7	26	10	1	119	5	80
BBE 9900N	.9	4	12	6	2	47	5	50
BBE 9920N	.7	6	14	6	1	42	5	60
BBE 9940N	.8	6	13	8	2	51	10	105
BBE 9960N	.6	3	10	7	2	35	10	70
BBE 9980N	.8	15	25	7	3	46	5	175
BBE BL	.7	5	16	7	1	55	5	110
BBE 10020N	.9	10	29	5	2	62	5	95
BBE 10040N	.9	10	28	5	2	50	10	160
BBE 10060N	1.0	3	8	6	2	72	5	65
BBE 10080N	.8	3	8	8	2	78	5	50
BBE 10100N	1.1	8	18	9	3	63	5	65
BBE 10120N	.9	2	11	8	3	64	5	55
BBE 10140N	.7	1	5	3	2	55	5	45
BBE 10160N	.8	3	7	5	1	48	10	130
BBE 10180N	.8	3	6	6	1	53	10	50
BBE 10200N	.8	3	9	7	2	30	5	65
BBE 10220N	.7	4	8	8	2	66	5	45
BBE 10240N	1.0	13	26	15	4	63	5	65
BBE 10260N	.9	6	22	8	3	62	5	65
BBE 10280N	.6	4	9	3	1	49	10	45
BBE 10300N	.7	4	10	7	1	50	5	40
BBE 10320N	.4	9	22	5	1	52	40	50
BBE 10340N	.7	4	16	15	2	72	5	55

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1861/P13
 * TYPE SOIL BEDCHEM * DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
B9E 10360N 40N	.9	7	33	13	2	58	10	50
B9E 10380N	.6	39	33	16	3	49	5	30
B9E 10400N	.8	5	28	16	2	55	5	30
B9E 10420N	.9	6	41	14	3	59	10	25
B9E 10440N	.4	13	39	13	2	53	5	25
B9E 10460N	.6	11	57	15	1	57	5	55
B9E 10480N	.5	9	37	15	1	65	5	40
B9E 10500N	.9	4	30	11	2	49	5	35
B9E 9100N	.5	3	4	10	2	54	10	30
B9E 9120N	.8	12	9	18	2	74	5	50
B9E 9140N	.8	8	10	11	1	113	5	55
B9E 9160N	.8	18	24	9	1	101	5	80
B9E 9180N	.9	7	8	11	2	56	5	40
B9E 9200N	.7	14	13	11	1	59	5	45
B9E 9220N	.8	31	25	15	3	70	10	65
B9E 9240N	.8	24	20	11	3	110	5	75
B9E 9260N	.6	9	11	12	1	116	5	55
B9E 9280N	.7	10	11	10	2	82	5	150
B9E 9300N	.8	32	27	11	4	143	10	80
B9E 9320N	.7	14	14	9	2	55	5	50
B9E 9340N	.8	4	9	11	3	68	5	45
B9E 9360N	.9	3	5	10	2	74	5	35
B9E 9380N	.8	3	3	9	2	53	5	35
B9E 9400N	.9	4	11	12	2	72	10	40
B9E 9420N	.8	4	6	10	2	72	5	35
B9E 9440N	.6	7	13	10	1	72	5	25
B9E 9460N	.6	9	21	7	2	69	10	55
B9E 9480N	.6	3	4	9	1	46	5	35
B9E 9300N	.9	3	9	9	2	61	10	35
B9E 9520N	.6	15	14	9	4	64	5	105
B9E 99 + 00N	.8	36	66	9	3	47	5	285
B9E 99 + 20N	.9	2	11	11	1	59	10	40
B9E 99 + 40N	.8	2	9	7	2	60	5	40
B9E 99 + 60N	.7	1	9	12	2	44	5	20
B9E 99 + 80N	1.1	3	15	9	1	79	5	50

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 DR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P14+15
 * TYPE SOIL BENECH * DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HB-PPB
89E 9540N	.6	1	5	13	1	61	5	25
89E 9560N	.4	1	7	13	1	119	5	35
89E 9580N	.4	16	25	8	1	67	10	125
89E 9600N	.3	10	12	12	1	53	10	65
89E 9620N	.6	15	12	10	1	74	10	40
89E 9640N	.7	10	16	13	1	57	5	35
89E 9660N	.7	4	14	14	1	66	5	40
89E 9680N	.6	16	26	11	2	52	5	70
89E 9700N	.9	12	17	13	1	64	5	90
89E 9720N	.7	5	19	12	1	101	5	45
89E 9740N	.9	5	11	12	1	35	5	35
89E 9760N	.8	2	13	8	1	47	5	65
89E 9780N	.8	9	22	10	1	36	10	40
89E 9800N	.7	10	9	13	1	53	5	80
89E 9820N	.7	1	7	8	1	41	5	35
89E 9840N	.6	1	10	12	1	59	5	35
89E 9860N	.4	4	7	9	1	38	5	60
89E 9880N	.9	1	13	12	1	50	5	60
89E BL	.9	1	7	10	1	53	10	25
89E 10020N	.9	1	14	12	1	80	5	25
89E 10040N	.9	1	8	12	1	46	5	30
89E 10060N	.7	1	11	13	1	53	5	25
89E 10080N	1.0	3	19	16	1	101	5	30
89E 10100N	.8	47	23	11	3	58	5	35
89E 10120N	1.0	6	10	12	1	69	10	20
89E 10140N	.7	2	7	12	1	67	5	25
89E 10160N	.7	22	48	10	1	51	5	60
89E 10180N	.7	2	12	9	1	50	5	30
89E 10200N	.8	4	13	10	2	73	10	25
89E 10220N	.7	8	25	15	1	104	5	50
89E 10240N	.4	1	7	13	2	62	5	15
89E 10260N	.6	1	6	12	1	64	10	25
89E 10280N	.5	1	5	9	1	39	10	25
89E 10300N	.6	6	32	14	6	59	5	15
89E 10320N	.7	1	17	13	3	51	5	20
89E 10340N	.7	1	13	11	1	54	10	25
89E 10360N	.5	1	11	13	1	50	5	25
89E 10380N	.8	1	24	17	1	77	5	50
89E 10400N	.6	2	21	13	5	76	5	35
89E 10420N	1.0	6	30	14	1	74	5	25
89E 10440N	.9	16	16	17	1	112	5	40
89E 10460N	1.0	13	17	14	1	72	5	40
89E 10480N	.9	11	12	12	1	65	10	35
89E 10500N	.7	2	13	11	3	79	5	30
89E 10520N	.8	5	29	9	1	63	5	40
89E 10540N	.7	1	13	9	3	67	5	35
89E 10560N	.8	2	14	12	1	66	5	35
90E 9100N	.7	2	9	10	2	84	5	30
90E 9120N	.7	1	8	13	1	88	20	30
90E 9140N	.9	1	8	15	1	73	10	30
90E 9160N	.6	3	7	8	1	63	20	40
90E 9180N	.5	22	16	9	1	69	10	50
90E 9200N	.7	18	15	7	2	80	5	55
90E 9220N	.7	26	19	8	2	79	5	40
90E 9240N	.7	30	23	10	4	68	5	125
90E 9260N	.9	27	33	13	2	71	10	90
90E 9280N	.8	18	27	10	1	81	5	75
90E 9300N	.9	8	19	11	3	65	5	55
90E 9320N	.9	21	28	13	1	66	5	80
90E 9340N	.8	14	18	9	2	56	10	65

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS TCP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT: 317) PAGE 1 OF 1
 FILE NO: 7-1881/P16+17
 † TYPE SOIL GEOCHEM † DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
90E 9360N	.5	68	33	9	14	149	10	290
90E 9380N	.4	8	17	9	3	78	5	45
90E 9400N	.7	1	6	13	1	42	10	55
90E 9420N	1.0	14	33	6	1	70	10	30
90E 9440N	1.0	4	13	11	1	72	5	40
90E 9460N	.9	4	14	11	1	91	5	35
90E 9480N	1.1	3	10	12	1	91	5	35
90E 9500N	.9	11	20	11	2	63	5	45
90E 9520N	.9	2	8	12	1	46	10	40
90E 9540N	1.2	30	44	10	3	112	10	85
90E 9560N	.7	9	12	8	2	84	5	50
90E 9580N	1.0	24	25	9	1	73	5	55
90E 9600N	.8	11	28	12	1	88	10	40
90E 9620N	.9	1	7	9	1	29	15	45
90E 9640N	.8	1	8	11	1	42	10	45
90E 9660N	.7	3	9	12	2	43	5	25
90E 9680N	.8	1	10	9	2	48	5	45
90E 9700N	.9	14	15	11	2	31	5	45
90E 9720N	1.0	7	14	12	1	57	20	40
90E 9740N	1.0	8	20	13	1	51	5	45
90E 9760N	1.2	18	22	9	1	64	5	100
90E 9780N	1.0	12	21	9	1	58	20	155
90E 9800N	1.1	10	19	11	1	61	10	65
90E 9820N	.8	1	8	10	2	80	15	30
90E 9840N	1.2	2	12	11	2	64	15	35
90E 9860N	1.2	1	12	8	1	60	10	30
90E 9880N	.7	1	10	10	2	57	5	25
90E 9900N	.7	1	11	10	2	36	5	55
90E 9920N	.6	2	11	11	1	66	5	45
90E 9940N	.7	2	17	10	1	58	5	105
90E 9960N	1.2	6	971	20	4	57	20	35
90E 9980N	.8	5	143	9	3	29	15	30
90E BL	1.3	6	566	11	1	34	20	35
90E 10020N	.9	5	618	18	4	43	5	20
90E 10040N	1.2	4	1687	18	1	60	5	25
90E 10060N	1.0	6	606	14	4	54	5	45
90E 10080N	.7	3	63	13	3	41	5	35
90E 10100N	.9	5	43	14	3	41	10	25
90E 10120N	1.0	6	48	11	3	45	10	25
90E 10140N	.8	2	60	9	1	39	35	25
90E 10160N	1.2	5	41	15	3	61	25	25
90E 10180N	.8	4	54	16	3	54	30	30
90E 10200N	1.3	2	53	15	3	16	5	30
90E 10220N	.9	6	56	16	4	76	40	40
90E 10240N	1.0	7	57	12	4	57	25	45
90E 10260N	1.0	5	322	14	5	52	5	25
90E 10280N	1.4	7	868	15	9	46	10	20
90E 10300N	6.3	8	3145	25	4	69	15	35
90E 10320N	1.2	3	63	14	3	19	10	25
90E 10340N	1.1	2	22	15	15	12	10	40
90E 10360N	.7	1	47	9	3	16	10	45
90E 10380N	1.4	1	353	11	2	28	10	160
90E 10400N 40N	4.2	6	8544	30	14	50	10	95
90E 10420N	1.2	3	99	13	1	21	30	50
90E 10440N	1.5	4	174	8	1	28	15	55
90E 10460N	.6	1	2697	10	2	3	50	30
90E 10480N	2.1	1	10711	22	11	32	30	70
90E 10500N	.6	8	131	14	5	126	20	50
90E 10520N	.9	1	88	8	2	20	15	20
90E 10540N	1.4	1	114	10	3	26	30	30

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
90E 10560N	.4	1	18	11	1	93	5	35
90E 10580N	.6	2	17	15	2	90	10	30
90E 10600N	.6	7	35	10	5	65	10	25
91E 9080N	.9	11	11	10	1	54	5	30
91E 9100N	.8	14	8	7	1	73	5	30
91E 9120N	.8	14	10	15	4	215	5	60
91E 9140N	.6	11	15	11	1	291	5	45
91E 9160N	.6	12	5	10	1	57	5	45
91E 9180N	.5	13	8	10	1	100	20	35
91E 9200N	.9	31	28	10	1	68	10	45
91E 9220N	1.0	26	28	9	1	62	5	100
91E 9240N	.9	32	29	10	1	88	10	60
91E 9260N	.9	26	20	6	4	68	5	50
91E 9280N	1.1	16	27	8	3	79	5	75
91E 9300N	.7	21	25	8	2	66	10	70
91E 9320N	.8	11	19	6	1	80	10	45
91E 9340N	1.0	8	16	10	1	68	5	80
91E 9360N	.8	18	18	9	1	79	5	70
91E 9380N	1.0	7	15	12	3	84	5	35
91E 9400N	.8	28	24	6	2	83	5	50
91E 9420N	.8	146	49	3	33	218	5	280
91E 9440N	.8	83	24	3	10	122	10	360
91E 9460N	.4	10	20	6	1	100	10	55
91E 9480N	.4	4	7	9	2	92	20	30
91E 9500N	.7	2	10	8	1	64	5	20
91E 9520N	.7	11	15	7	1	46	5	40
91E 9540N	.9	4	15	10	1	95	5	45
91E 9560N	.8	6	11	11	1	55	10	40
91E 9580N	.8	3	8	7	1	44	5	50
91E 9600N	.9	21	35	10	4	63	5	115
91E 9620N	.4	20	20	11	1	61	50	35
91E 9640N	.6	15	9	8	1	39	10	45
91E 9660N	.6	10	15	9	1	41	5	60
91E 9680N	.7	2	13	9	2	34	5	25
91E 9700N	.5	1	5	5	1	27	5	15
91E 9720N	.6	1	7	8	1	42	5	40
91E 9740N	.7	8	12	8	1	38	5	75
91E 9760N	.8	10	12	10	1	50	5	130
91E 9780N	1.0	6	10	9	1	46	5	80
91E 9800N	.8	3	6	10	1	45	5	50
91E 9820N	.9	8	16	6	3	68	5	230
91E 9840N	.7	6	14	8	1	43	10	40
91E 9860N	.7	3	7	7	1	42	10	20
91E 9880N	.7	1	6	9	1	64	5	25
91E 9900N	.8	2	12	7	1	81	5	25
91E 9920N	.6	2	11	9	2	33	5	25
91E 9940N	.8	1	8	9	2	54	5	10
91E 9960N	.7	1	9	8	3	78	5	20
91E 9980N	.8	4	12	7	1	53	5	30
91E BL	.8	1	5	7	1	50	5	15
91E 10020N	.9	1	6	6	1	39	5	15
91E 10040N	.9	1	11	10	1	68	5	25
91E 10060N	.7	1	8	8	1	103	5	10
91E 10080N	.7	2	9	10	2	72	5	30
91E 10100N	.3	7	14	5	2	59	5	25
91E 10120N	.7	2	14	7	3	95	5	10
91E 10140N	.6	2	8	9	1	52	5	20
91E 10160N	.6	2	8	6	2	51	5	15
91E 10180N	.6	1	5	6	1	52	5	10
91E 10200N	.9	4	16	6	3	61	5	20

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECONO CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS (CP) REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604) 980-5814 OR (604) 988-4524

(ACT: 31) PAGE 1 OF 1
 FILE NO: 7-1881/P20+21
 TYPE SOIL GEOCHEM DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
91E 10220N	.7	7	18	6	1	71	5	45
91E 10240N	.3	8	26	7	2	50	5	30
91E 10260N	.5	1	11	6	2	58	5	15
91E 10280N	.6	5	14	7	3	62	5	25
91E 10300N	.6	1	6	5	1	51	5	15
91E 10320N	.7	1	6	5	1	64	5	15
91E 10340N	.7	1	8	7	1	72	10	15
91E 10360N	.8	1	8	2	1	53	10	20
91E 10380N	.6	6	18	7	4	71	10	25
91E 10400N	.6	22	12	7	4	61	10	25
91E 10420N	.6	13	21	5	2	68	5	30
91E 10440N	.8	5	21	6	3	67	5	20
91E 10460N	.8	3	13	7	2	85	5	15
91E 10480N	.5	4	24	16	1	65	5	50
91E 10500N	.6	4	13	7	2	66	5	10
91E 10520N	.8	2	14	5	2	69	5	20
91E 10540N	.5	1	12	4	1	61	5	20
91E 10560N	.7	3	10	5	1	82	5	15
91E 10580N	.9	4	11	7	3	75	5	30
91E 10600N	.9	11	32	9	6	74	5	35
91E 10620N	.8	8	16	10	1	47	5	25
91E 10640N	1.0	7	15	9	1	72	5	20
91E 10660N	.8	2	11	5	3	41	5	20
91E 10680N	.7	3	9	9	1	46	5	20
91E 10700N	.7	6	16	6	3	69	5	45
92E 9040N	.6	8	10	3	1	90	5	40
92E 9060N	.8	4	9	5	2	84	75	25
92E 9080N	.7	11	21	8	1	75	10	45
92E 9100N	.5	3	7	6	1	71	5	30
92E 9120N	.6	20	26	7	1	70	5	135
92E 9140N	.5	6	10	11	2	99	5	15
92E 9160N	.5	19	18	7	3	67	5	60
92E 9180N	.6	26	23	8	1	83	10	40
92E 9200N	.5	3	5	6	1	55	5	10
92E 9220N	.5	1	7	10	1	65	5	15
92E 9240N	.7	20	25	6	1	63	5	100
92E 9260N	.7	22	28	10	1	53	5	45
92E 9280N	.8	14	23	11	4	62	5	45
92E 9300N	.8	16	22	6	1	49	5	55
92E 9320N	.8	8	15	8	1	79	5	165
92E 9340N	.9	3	11	10	3	90	5	65
92E 9360N 40M	.8	24	31	5	2	79	5	655
92E 9380N	.8	11	13	9	1	62	5	50
92E 9400N	.8	18	16	6	3	113	10	105
92E 9420N	.9	20	27	6	2	53	5	120
92E 9440N	.7	7	12	9	1	49	5	65
92E 9460N	.6	5	9	11	1	62	5	45
92E 9480N	1.0	10	14	7	1	70	5	55
92E 9500N	.8	48	22	9	2	64	5	70
92E 9520N	.9	12	25	8	1	70	10	60
92E 9540N	.8	24	28	10	2	49	5	80
92E 9560N	.8	9	15	9	2	63	5	60
92E 9580N	.6	12	15	10	1	75	5	25
92E 9600N	.7	20	15	7	2	111	10	65
92E 9620N	.8	11	7	7	1	74	5	95
92E 9640N	.8	5	6	6	2	51	5	30
92E 9660N	1.0	4	7	8	1	38	5	25
92E 9680N	.9	8	17	9	1	41	5	70
92E 9700N	.8	1	6	7	1	29	10	30
92E 9720N	.6	6	9	11	1	42	10	85

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS TCR REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

INSTRUMENT: PROE 1 OF 1
 FILE NO: 7-1881/P22+23
 * TYPE SOIL GEOCHEM * DATE: DEC 7, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
92E 8740N	.6	4	7	12	1	68	10	35
92E 8760N	.5	1	8	11	1	70	5	25
92E 8780N	.7	1	6	11	1	51	5	35
92E 8800N	.7	1	6	11	1	62	5	30
92E 8820N	.7	4	10	9	1	61	5	35
92E 8840N	.7	4	13	10	1	81	5	25
92E 8860N	.6	4	11	9	1	53	5	50
92E 8880N	.7	11	35	7	1	82	5	250
92E 8900N	.6	2	11	10	1	63	5	15
92E 8920N	.9	9	20	10	1	74	50	35
92E 8940N	.7	6	17	8	1	38	10	30
92E 8960N	.7	2	6	8	1	41	5	20
92E 8980N	.6	1	4	10	1	45	10	20
92E 8L	.8	4	7	14	1	59	10	15
92E 10020N	.6	1	4	11	1	47	10	20
92E 10040N	1.0	10	13	10	1	70	5	30
92E 10060N	1.1	4	12	11	1	64	5	15
92E 10080N	1.3	9	17	17	2	100	5	25
92E 10100N	1.0	5	14	15	1	75	10	30
92E 10120N	.9	4	7	9	2	73	5	10
92E 10140N	1.0	7	19	17	1	66	10	25
92E 10160N	1.3	7	23	13	1	67	5	15
92E 10180N	1.0	3	8	11	2	83	10	20
92E 10200N	1.0	9	16	10	1	85	5	35
92E 10220N	.9	4	8	11	1	72	5	25
92E 10240N	1.2	3	11	9	1	77	5	25
92E 10260N	1.0	4	13	11	1	45	5	15
92E 10280N	1.1	4	15	9	1	57	5	30
92E 10300N	1.0	6	25	14	1	68	10	40
92E 10320N	.7	2	6	6	1	57	5	20
92E 10340N	.6	3	11	8	1	74	10	20
92E 10360N	.7	4	13	13	1	80	5	15
92E 10380N	.6	2	7	9	1	68	5	15
92E 10400N	.6	3	7	11	1	66	5	15
92E 10420N	.8	3	8	10	1	70	5	25
92E 10440N	.7	8	11	12	1	65	10	20
92E 10460N	.7	25	29	13	1	85	5	30
92E 10480N	.7	6	16	11	1	86	5	15
92E 10500N	.7	4	13	9	3	84	5	20
92E 10520N	.9	6	14	13	4	94	5	30
92E 10540N	.8	7	12	11	3	91	10	40
92E 10560N	.9	6	14	8	1	72	5	25
92E 10580N	1.0	6	15	15	1	92	5	40
92E 10600N	1.1	8	31	15	6	83	5	45
92E 10620N	1.0	11	20	15	1	67	5	45
92E 10640N	1.2	62	42	41	1	120	45	60
92E 10660N	.9	147	69	21	1	75	30	185
92E 10680N	1.0	14	15	16	1	78	10	25
92E 10700N	.9	12	21	11	1	78	10	40
92E 10720N	1.0	7	17	13	1	75	5	40
92E 10740N	1.0	6	13	13	1	110	5	30
92E 10760N	1.0	3	13	12	1	108	10	40
93E 9040N	1.1	19	28	8	1	58	5	60
93E 9060N	1.1	6	16	12	1	63	5	40
93E 9080N	1.0	9	14	11	1	67	30	35
93E 9100N	1.0	6	9	11	1	67	10	35
93E 9120N	1.0	18	20	11	1	70	10	55
93E 9140N	1.2	14	22	7	1	72	10	35
93E 9160N	1.1	23	38	9	3	60	15	50
93E 9180N	1.0	31	44	9	4	65	5	80

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881SP24+25
 * TYPE SOIL GEOCHEM * DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	BB	ZN	AU-PPB	HG-PPB
93E 9200N	.7	26	41	11	2	64	5	40
93E 9220N	.5	20	26	7	2	8	5	35
93E 9240N	.7	21	12	9	1	7	5	10
93E 9260N	.5	12	20	7	2	67	5	70
93E 9280N	.7	13	19	10	1	65	5	25
93E 9300N	.5	13	18	10	2	51	5	30
93E 9320N	.5	17	46	7	2	68	5	480
93E 9340N	.5	15	40	8	6	54	5	270
93E 9360N	.4	26	24	8	2	52	5	85
93E 9380N	.7	34	37	6	3	55	5	135
93E 9400N	.7	12	15	9	3	62	5	110
93E 9420N	.8	12	15	10	2	55	10	20
93E 9440N	.7	15	8	14	1	50	5	15
93E 9460N	.7	20	23	12	3	59	5	150
93E 9480N	.7	13	16	9	2	61	5	55
93E 9500N	1.1	29	27	10	6	57	10	115
93E 9520N	.9	56	50	9	9	61	5	330
93E 9540N	1.0	31	27	7	6	55	10	160
93E 9560N	.9	46	40	10	12	59	5	270
93E 9580N	.8	29	27	9	5	56	5	115
93E 9600N	.7	34	36	7	5	57	5	210
93E 9620N	.6	12	16	10	2	59	5	55
93E 9640N	.7	4	8	12	1	41	10	50
93E 9660N	.8	6	11	10	2	74	10	45
93E 9680N	1.0	9	15	11	1	60	10	60
93E 9700N	.7	16	23	8	1	54	5	165
93E 9720N	1.0	12	20	12	2	45	5	105
93E 9740N	.6	1	6	10	1	37	10	20
93E 9760N	1.0	3	11	9	1	60	5	15
93E 9780N	.9	5	15	11	1	58	10	60
93E 9800N	.7	1	6	10	1	55	10	20
93E 9820N	.8	4	12	10	1	69	10	90
93E 9840N	.9	2	9	8	2	52	10	55
93E 9860N	.9	1	8	10	1	65	5	15
93E 9880N	.7	1	6	8	1	56	5	20
93E 9900N	.6	1	5	8	1	56	10	20
93E 9920N	.5	2	14	9	2	51	10	30
93E 9940N	.6	5	14	10	1	51	5	45
93E 9960N	.9	5	16	11	1	52	10	35
93E 9980N	.8	3	14	10	2	54	10	270
93E 9100N	.9	7	13	12	2	71	5	60
94E 9040N	.8	16	25	12	2	84	10	155
94E 9060N	.9	8	24	13	1	82	5	55
94E 9080N	.8	9	33	12	4	68	10	65
94E 9100N	.8	20	29	10	1	67	10	100
94E 9120N	.9	31	44	10	3	88	185	265
94E 9140N 40M	.9	22	71	9	6	127	30	805
94E 9160N	.8	190	51	6	7	183	20	510
94E 9180N	.8	70	44	11	2	163	10	235
94E 9200N	.9	34	40	9	2	87	220	145
94E 9220N	.9	45	44	9	1	107	45	180
94E 9240N	1.0	55	52	8	1	105	15	160
94E 9260N	.9	8	19	7	1	83	10	30
94E 9280N	.9	16	48	12	1	92	15	115
94E 9300N	.9	43	45	13	3	84	55	95
94E 9320N	.9	67	37	8	3	107	5	105
94E 9340N	1.3	118	42	11	2	93	25	410
94E 9360N	.9	48	36	6	1	63	5	255
94E 9380N	.7	67	48	12	1	93	5	180
94E 9400N	.9	91	53	8	3	101	10	75

PROJECT NO: SECOND CREEK

705 W. 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1881/P26+27

ATTENTION: ALVIN JACKSON

(604)980-5814 OR (604)988-4524

† TYPE SOIL GEOCHEM † DATE: DEC 8, 1987

(VALUES IN PPM)	AS	AS	CA	PB	SB	ZN	AU-PPB	HG-PPB
94E 9420N	1.0	40	56	14	1	83	10	175
94E 9440N	.6	34	50	5	4	94	5	200
94E 9460N	.7	63	49	6	5	102	5	60
94E 9480N	.9	54	68	9	4	69	5	150
94E 9500N	.6	20	32	9	2	90	5	50
94E 9520N	.7	63	62	6	7	70	5	110
94E 9540N	.7	79	85	5	2	75	10	80
94E 9560N	1.0	79	76	7	4	67	10	410
94E 9580N	1.0	36	43	9	4	53	5	110
94E 9600N	.7	14	20	14	3	69	5	35
94E 9620N	1.0	41	57	8	4	83	5	60
94E 9640N	.9	29	56	11	3	74	10	115
94E 9660N	1.0	27	41	6	2	54	5	130
94E 9680N	1.0	3	10	9	2	35	5	175
94E 9700N	.9	4	13	9	2	50	5	25
94E 9720N	1.0	2	16	14	2	103	5	20
94E 9740N	1.0	7	24	12	2	100	5	25
94E 9760N	1.0	5	20	12	1	74	5	30
94E 9780N	1.0	3	12	8	2	44	5	20
94E 9800N	.9	10	28	13	3	50	5	45
94E 9820N	1.0	11	26	12	3	47	5	65
94E 9840N	.9	4	9	11	2	56	5	15
94E 9860N	1.0	3	11	9	1	52	5	20
94E 9880N	1.0	4	13	12	2	69	10	25
94E 9900N	1.2	5	22	11	1	75	5	25
94E 9920N	.9	4	10	10	1	34	5	25
94E 9940N	.9	5	9	11	2	84	10	20
94E 9960N	1.1	14	30	7	2	73	5	35
94E 9980N	.9	1	7	10	2	50	5	15
94E BL D	1.0	3	12	14	2	102	5	25
94E 10020N	.5	6	22	11	1	82	5	35
94E 10040N	.5	1	7	10	1	60	5	25
94E 10060N	.8	1	8	10	1	60	5	20
94E 10080N	.7	2	20	14	2	76	5	15
94E 10100N	1.1	2	15	16	2	78	5	25
94E 10120N	1.4	7	19	15	2	90	5	30
94E 10140N	1.0	2	6	9	2	80	5	20
94E 10160N	1.1	1	11	12	2	58	5	25
94E 10180N	1.2	1	22	16	2	65	5	35
94E 10200N	1.1	1	13	12	2	54	5	10
94E 10220N	1.4	4	40	23	3	61	5	35
94E 10240N	1.3	2	35	15	1	57	5	40
94E 10260N	1.6	4	40	18	2	62	10	30
94E 10280N 40N	1.5	7	66	22	2	58	10	25
94E 10300N	1.5	3	28	18	1	69	5	30
94E 10320N	1.4	6	60	23	3	66	5	25
94E 10340N	1.4	6	47	16	3	56	10	30
94E 10360N	1.2	5	40	19	2	59	5	30
94E 10380N	1.2	5	44	19	2	67	5	25
94E 10400N	.9	2	28	15	1	58	10	40
94E 10420N	1.1	28	42	13	3	62	5	20
94E 10440N	1.0	9	32	16	2	61	5	20
94E 10460N	.9	6	33	15	2	56	5	25
94E 10480N	.7	14	61	12	1	64	10	25
94E 10500N	.8	25	54	12	1	72	5	30
94E 10520N 40N	.7	12	86	13	1	72	5	35
94E 10540N	1.3	9	63	22	1	69	5	25
94E 10560N	1.2	6	48	13	1	55	5	35
94E 10580N N/S								
94E 10600N	1.0	15	60	18	1	59	10	40

PROJECT NO: SECOND CREEK

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1881/P28+29

ATTENTION: ALVIN JACKSON

(604)980-5814 OR (604)988-4524

TYPE SOIL GEDCHEM DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	H5-PPB
94E 10620N	.6	19	37	14	1	79	5	35
94E 10640N 40M	1.0	37	69	18	1	84	20	75
94E 10660N	1.0	44	62	29	2	105	5	45
94E 10680N	.6	35	58	22	2	83	5	50
94E 10700N	.6	91	52	28	2	97	5	40
94E 10720N	1.0	21	41	23	1	81	5	30
94E 10740N	.5	36	19	10	1	56	5	30
94E 10760N	.6	4	14	10	1	74	5	15
94E 10780N	1.4	4	23	12	2	82	5	20
94E 10800N	1.4	5	31	13	6	64	5	25
95E 9300N	.7	27	35	6	1	81	5	45
95E 9320N	.9	26	34	4	1	65	5	95
95E 9340N	1.2	68	100	10	2	103	200	85
95E 9360N	1.2	37	69	4	1	91	10	75
95E 9380N	1.0	24	46	11	1	75	5	70
95E 9400N	1.0	61	94	11	6	96	5	130
95E 9420N	1.0	38	53	4	1	70	5	135
95E 9440N	1.1	39	61	4	5	87	5	135
95E 9460N	1.1	62	72	6	1	95	5	165
95E 9480N	1.0	65	73	6	3	70	10	400
95E 9500N	.7	26	94	6	3	143	10	90
95E 9520N	1.0	58	97	6	1	98	5	105
95E 9540N	.9	35	99	1	3	93	5	130
95E 9560N	1.1	52	112	1	3	108	5	170
95E 9580N	1.0	92	117	1	1	104	10	320
95E 9600N	1.0	65	82	6	2	82	10	165
95E 9620N	1.0	58	119	3	3	71	5	90
95E 9640N	.3	33	200	3	1	48	5	295
95E 9660N	.9	20	274	11	5	57	5	90
95E 9680N	.8	22	71	7	3	56	5	170
95E 9700N	.2	35	66	9	3	54	5	50
95E 9720N	.5	108	89	4	10	64	5	205
95E 9740N	.2	15	89	11	4	40	10	170
95E 9760N	.6	11	40	5	1	59	10	60
95E 9780N	.6	13	42	8	1	48	10	55
95E 9800N	.6	61	89	8	5	74	10	125
95E 9820N	.5	19	35	7	1	52	5	60
95E 9840N	.6	27	27	13	1	51	10	40
95E 9860N	.7	26	21	10	3	40	5	35
95E 9880N	.7	6	22	8	1	51	5	25
95E 9900N	.6	8	21	7	3	53	5	40
95E 9920N	.6	6	6	5	1	39	5	20
95E 9940N	.6	2	11	9	1	49	5	45
95E 9960N	.7	2	15	9	1	57	5	160
95E 9980N	.7	1	10	10	2	43	5	25
95E BL	.4	1	9	10	1	50	5	25
96E 9400N	.6	9	18	13	1	69	10	35
96E 9420N	.3	2	11	7	1	52	5	20
96E 9440N	.6	5	16	7	1	52	5	25
96E 9460N	1.0	18	45	11	1	98	5	60
96E 9480N	.5	13	45	5	3	79	5	25
96E 9500N	.8	34	97	5	3	116	5	75
96E 9520N	.8	47	111	3	3	115	5	75
96E 9540N	.8	16	39	5	3	85	5	20
96E 9560N	.7	42	144	9	4	66	5	4625
96E 9580N	.6	22	132	5	4	57	5	70
96E 9600N	.7	47	127	7	4	55	10	70
96E 9620N	.7	40	107	4	3	57	5	155
96E 9640N	.8	89	155	12	4	60	20	175
96E 9660N	.6	17	53	7	1	61	5	30

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P30+31
 † TYPE SOIL GEOCHEM † DATE: DEC 8, 1987

(VALUES IN PPM)	AS	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
96E 9680N	.8	27	78	16	2	57	10	25
96E 9700N	.7	21	166	7	1	43	10	30
96E 9720N	.9	21	199	5	7	40	5	35
96E 9740N	.9	22	300	7	6	43	5	45
96E 9760N	.9	24	262	6	1	50	5	70
96E 9780N	.8	22	130	5	1	41	5	45
96E 9800N	.8	81	269	10	1	53	20	110
96E 9820N	.7	36	189	7	1	41	10	305
96E 9840N	.5	70	119	5	1	51	5	900
96E 9860N	.8	190	62	6	4	85	10	330
96E 9880N	.8	111	79	9	8	93	5	115
96E 9900N	.8	48	85	7	2	76	5	120
96E 9920N	1.0	11	28	12	2	40	10	35
96E 9940N	1.2	10	23	11	3	46	5	20
96E 9960N	.7	102	125	9	1	60	10	50
96E 9980N	.8	7	20	10	2	67	10	25
96E BL	.9	22	60	12	1	73	5	110
97E 9440N	1.0	2	12	8	3	45	5	25
97E 9460N	.8	27	55	10	2	71	10	25
97E 9480N	.8	25	57	12	3	85	5	180
97E 9500N	.6	15	37	7	1	75	10	105
97E 9520N	.8	12	36	9	1	65	10	25
97E 9540N	.6	1	16	4	2	62	5	10
97E 9560N	.7	4	16	10	2	49	5	20
97E 9580N	1.0	6	86	12	1	61	10	20
97E 9600N	1.1	6	76	8	1	56	5	30
97E 9620N	1.1	24	268	15	1	57	10	25
97E 9640N	1.1	30	315	20	7	54	65	35
97E 9660N	1.0	43	254	13	1	47	10	35
97E 9680N	.8	41	289	7	1	40	5	30
97E 9700N	.7	14	251	9	5	46	10	35
97E 9720N	.7	30	251	7	1	48	10	40
97E 9740N	.8	35	251	5	1	51	5	70
97E 9760N	.9	45	258	14	5	70	270	45
97E 9780N	.9	39	70	6	4	84	10	65
97E 9800N	1.0	23	53	6	3	55	15	65
97E 9820N	1.1	27	79	5	2	72	10	135
97E 9840N	.9	195	207	7	1	104	5	210
97E 9860N	.7	53	92	10	4	85	5	400
97E 9880N	.8	34	82	4	4	79	5	180
97E 9900N	.7	50	79	8	4	82	25	195
97E 9920N	.5	18	24	7	2	44	5	1090
97E 9940N	.1	4	12	4	1	28	5	2375
97E 9960N	.8	21	38	5	2	53	5	1710
97E 9980N	.7	35	38	7	5	68	5	610
97E BL	.6	31	68	6	1	44	10	170
98E 9440N	1.2	6	41	10	2	98	5	20
98E 9460N	1.2	2	13	11	1	36	5	20
98E 9480N	1.2	7	44	13	3	52	5	25
98E 9500N	.8	3	11	8	2	30	5	10
98E 9520N	.7	1	12	10	1	44	10	15
98E 9540N	.9	1	6	7	1	29	5	20
98E 9560N	.7	1	15	8	1	56	5	15
98E 9580N	1.1	17	112	14	6	72	10	135
98E 9600N	1.1	23	227	8	5	46	20	375
98E 9620N	1.0	24	123	8	6	67	5	185
98E 9640N	1.8	13	70	8	3	27	5	140
98E 9660N	.5	22	81	8	3	59	5	215
98E 9680N	.8	50	474	10	7	74	10	185
98E 9700N	.7	13	58	13	1	72	15	25

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT: F31) PAGE 1 OF 1
 FILE NO: 7-1881/P32+J3
 TYPE SOIL GEOCHEM DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	H6-PPB
98E 9720N	.9	6	18	11	1	73	5	20
98E 9740N	.8	52	57	8	1	147	10	35
98E 9760N	.8	62	161	7	7	66	5	110
98E 9780N	N/S							
98E 9800N	.7	46	34	10	3	80	5	230
98E 9820N	.7	55	257	8	4	59	10	180
98E 9840N	1.0	59	257	6	5	60	10	150
98E 9860N	.8	77	350	8	13	66	20	335
98E 9880N	1.1	105	401	7	23	71	5	470
98E 9900N	1.1	126	393	14	30	59	20	1400
98E 9920N	1.1	321	306	49	97	79	470	3125
98E 9940N	1.0	51	176	7	6	55	5	300
98E 9960N	1.1	29	101	10	5	71	5	110
98E 9980N	.8	38	63	15	2	67	5	330
98E 10000N BL20M	.9	61	38	13	1	48	5	950
98E 10020N	1.0	65	48	10	2	83	5	260
98E 10040N	.9	50	31	12	1	73	5	95
98E 10060N	.9	35	45	12	2	55	5	145
98E 10080N	1.1	31	42	9	2	57	5	65
98E 10100N	1.0	71	44	14	3	66	5	285
98E 10120N	.9	97	59	16	4	78	5	80
98E 10140N	.9	27	48	15	2	80	5	50
98E 10160N	1.1	29	66	14	1	88	5	65
98E 10180N	1.1	31	61	7	1	83	5	60
98E 10200N	1.1	49	69	8	3	79	5	75
98E 10220N	.9	95	73	12	5	83	5	200
98E 10240N	1.0	150	69	11	3	93	5	135
98E 10260N	1.1	157	107	66	5	217	45	355
98E 10280N	1.1	100	88	29	8	127	20	1100
98E 10300N 20M	.9	126	55	10	3	78	5	240
98E 10320N	.6	44	43	9	3	77	5	70
98E 10340N	.6	104	49	9	2	104	5	115
98E 10360N 40M	.8	253	49	11	3	83	10	240
98E 10380N	1.0	240	61	18	5	93	5	315
98E 10400N	.8	69	34	9	2	80	5	40
98E 10420N	.9	22	29	9	1	59	5	35
98E 10440N	.9	32	20	76	1	61	5	60
98E 10460N	.9	286	59	26	2	90	5	330
98E 10480N	.7	71	36	5	1	72	10	230
98E 10500N	.7	38	13	10	1	48	5	55
98E 10520N	.7	246	56	10	4	141	5	255
98E 10540N	.9	100	45	18	1	103	5	105
98E 10560N	.8	23	40	11	4	67	60	60
98E 10580N	.9	8	21	14	3	67	5	35
98E 10600N 40M	.8	31	49	10	2	69	10	105
98E 10620N	.8	60	52	16	3	59	5	350
98E 10640N	.8	53	33	11	1	77	5	120
98E 10660N	.9	24	47	13	5	58	5	80
98E 10680N	.9	7	13	14	3	68	5	40
98E 10700N	.9	29	31	12	4	60	10	80
98E 10720N	1.0	20	23	18	1	80	5	45
98E 10740N	.9	5	10	14	2	53	5	35
98E 10760N	.9	8	23	10	3	56	10	40
98E 10780N	.9	9	15	11	3	63	10	45
98E 10800N	1.0	25	31	12	1	73	5	45
98E 10820N	1.0	8	13	12	1	58	5	15
98E 10840N	.8	7	17	15	1	60	5	25
99E 9500N	1.0	14	29	11	2	56	5	55
99E 9520N	1.0	1	6	10	1	63	10	25
99E 9540N	1.1	6	14	11	1	63	5	30

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 DR (604)988-4524

(ACT: 51) PAGE 1 OF 1
 FILE NO: 7-1881/P34+35
 † TYPE SOIL GEOCHEM † DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	H6-PPB
99E 9560N	.7	1	13	13	1	76	5	25
99E 9580N	.7	3	15	10	3	44	100	35
99E 9600N	.9	1	14	13	1	56	10	20
99E 9620N	.9	1	12	10	1	55	20	25
99E 9640N	.7	4	123	14	4	67	10	45
99E 9660N	.9	1	27	12	3	89	15	20
99E 9680N	.7	3	14	10	1	65	5	20
99E 9700N	.9	4	13	11	1	74	10	15
99E 9720N	.6	17	58	11	1	55	5	195
99E 9740N	.7	18	67	14	3	62	10	600
99E 9760N	.8	37	229	7	1	61	10	1160
99E 9780N	.7	19	149	7	1	66	5	175
99E 9800N 40M	.5	33	180	4	1	64	5	480
99E 9820N	.8	30	167	12	3	83	5	1060
99E 9840N	.8	15	116	9	2	58	5	310
99E 9860N	.7	23	180	11	4	60	10	4375
99E 9880N	.5	15	190	6	1	61	5	1310
99E 9900N	.9	17	197	5	1	64	5	885
99E 9920N	.5	18	112	11	4	69	5	1325
99E 9940N	.7	20	163	7	3	61	5	735
99E 9960N	.8	31	170	5	3	72	5	270
99E 9980N	.8	42	124	9	2	80	10	175
99E BL	.7	45	92	6	2	54	10	195
99E 10020N	.5	27	74	9	2	57	5	155
99E 10040N	.7	11	27	13	1	53	5	135
99E 10060N	.6	14	40	10	1	52	5	95
99E 10080N	.9	19	34	11	3	54	10	55
99E 10100N	.8	9	19	10	1	52	5	55
99E 10120N	.6	7	14	12	3	62	5	35
99E 10140N 40M	.9	44	48	9	1	67	5	120
99E 10160N	.3	14	29	13	3	61	5	40
99E 10180N	.9	9	29	11	1	86	5	45
99E 10200N	.9	19	24	11	1	71	5	70
99E 10220N	.9	23	24	12	1	87	5	60
99E 10240N 40M	.7	191	65	6	4	73	5	5250
99E 10260N	.6	10	50	12	1	100	10	145
99E 10280N	.9	48	42	9	1	79	5	125
99E 10300N	.7	22	34	10	1	81	5	65
99E 10320N 40M	.9	39	35	8	3	74	5	100
99E 10340N	.8	14	14	9	1	81	5	45
99E 10360N	.9	185	60	18	5	104	10	385
99E 10380N	.8	11	12	7	1	68	5	30
99E 10400N	1.0	16	18	7	1	75	5	45
99E 10420N	.9	18	15	9	1	56	10	35
99E 10440N	.8	17	11	9	1	54	10	30
99E 10460N	.9	43	23	12	1	102	5	95
99E 10480N	.9	87	55	12	2	79	5	105
99E 10500N	.8	43	33	9	1	68	10	120
99E 10520N	1.0	45	21	15	2	92	5	40
99E 10540N	1.0	30	22	13	1	83	5	40
99E 10560N	.9	22	29	9	3	78	10	25
99E 10580N	.9	27	26	13	2	67	10	35
99E 10600N	.9	17	21	13	1	89	5	50
99E 10620N	.9	10	20	7	1	66	20	15
99E 10640N	.6	19	42	8	4	63	15	40
99E 10660N	1.0	10	18	9	1	79	5	20
99E 10680N	.9	16	28	11	1	103	5	20
99E 10700N	1.0	12	30	12	1	70	5	20
99E 10720N	.9	7	22	15	1	72	10	25
99E 10740N	.9	1	10	11	1	50	5	25

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
99E 10760N	.8	.6	11	12	1	51	5	80
99E 10780N	.7	.18	18	16	1	58	5	55
99E 10800N	.6	.18	17	14	1	46	5	45
99E 10820N	.7	.22	24	15	4	71	10	95
99E 10840N	.7	.14	16	14	3	65	5	60
99E 10850N	.7	.26	18	18	1	65	5	65
100E 9300N	.9	.2	15	9	2	48	5	45
100E 9320N	.9	.4	14	9	1	53	5	85
100E 9340N	1.0	.1	7	11	1	76	5	55
100E 9360N	.9	.4	15	9	1	73	10	55
100E 9380N	.7	.1	4	10	1	32	5	35
100E 9400N	.8	.1	6	10	1	58	5	45
100E 9420N	.9	.3	10	9	1	40	5	80
100E 9440N	.8	.5	22	11	1	38	5	75
100E 9460N	.7	.21	26	10	2	48	5	180
100E 9480N	.9	.7	19	12	1	34	5	55
100E 9500N	.6	.1	7	11	1	37	10	20
100E 9520N	1.1	.5	14	9	1	60	5	45
100E 9540N	1.0	.2	11	12	1	50	5	35
100E 9560N	.9	.3	11	15	1	50	5	55
100E 9580N	1.1	.5	21	10	3	35	5	55
100E 9600N	.9	.4	13	11	1	51	5	30
100E 9620N	.7	.9	26	9	1	46	10	175
100E 9640N	1.1	.5	28	12	1	69	5	85
100E 9660N	1.1	.5	23	12	1	72	120	45
100E 9680N	1.0	.5	18	11	1	52	5	70
100E 9700N	.7	.6	23	13	1	78	5	50
100E 9720N	.8	.1	9	9	1	44	5	60
100E 9740N	.9	.2	19	13	1	115	10	40
100E 9760N	.9	.1	11	12	1	62	5	75
100E 9780N	.9	.14	63	10	5	80	5	200
100E 9800N	1.0	.15	66	11	3	66	5	325
100E 9820N	.6	.16	61	11	1	46	10	230
100E 9840N	.8	.32	83	10	3	81	5	920
100E 9860N	.6	.6	210	7	3	70	5	1660
100E 9880N	.9	.81	109	19	16	107	30	4000
100E 9900N	.8	.23	123	5	4	76	5	845
100E 9920N	.9	.14	97	8	2	61	5	700
100E 9940N	.8	.24	63	8	3	60	10	530
100E 9960N	.9	.17	122	6	1	75	10	315
100E 9980N	.9	.18	72	6	1	75	5	195
100E BL	.8	.76	73	3	4	60	5	300
101E 9300N	.8	.1	13	11	3	57	5	50
101E 9320N	.9	.1	6	5	2	42	10	35
101E 9340N	.9	.1	3	6	1	31	5	40
101E 9360N	.9	.1	8	7	1	30	10	30
101E 9380N	.7	.1	16	7	2	44	5	60
101E 9400N	.9	.1	8	9	2	34	15	35
101E 9420N	1.2	.13	20	5	3	42	10	50
101E 9440N	.9	.53	11	6	1	29	5	80
101E 9460N	.8	.64	15	8	2	30	10	120
101E 9480N	.9	.53	22	7	1	41	100	75
101E 9500N	1.4	.25	43	6	1	48	20	400
101E 9520N	.9	.20	14	9	1	26	10	80
101E 9560N	.8	.15	51	5	3	39	10	5500
101E 9580N	1.2	.29	64	7	4	55	5	1830
101E 9600N	1.2	.19	100	3	2	49	5	790
101E 9620N	.9	.32	56	5	2	53	5	155
101E 9640N	.8	.7	21	8	2	42	10	185
101E 9660N	1.4	.8	56	11	3	47	5	155

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS TCP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACTIF-1) PAGE 1 OF 1
 FILE NO: 7-1881/P38+39
 * TYPE SOIL GEOCHEM * DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
101E 9680N	1.0	8	67	6	2	47	5	1460
101E 9700N	.6	4	13	9	2	48	10	65
101E 9720N	.8	6	27	5	2	56	15	215
101E 9740N	1.0	24	27	7	2	75	5	270
101E 9760N	.9	8	13	5	1	58	10	115
101E 9780N	.7	36	38	7	4	41	10	3000
101E 9800N	.9	16	18	9	2	55	5	210
101E 9820N	.7	18	25	5	1	50	5	510
101E 9840N	.7	12	25	6	1	36	5	200
101E 9860N	.8	18	60	4	1	55	5	250
101E 9880N	1.0	5	44	6	1	52	5	120
101E 9900N	1.0	11	49	9	3	53	5	365
101E 9920N	1.0	10	50	8	5	50	10	130
101E 9940N	.8	12	58	9	2	42	5	445
101E 9960N	.8	14	141	4	2	50	5	1470
101E 9980N	.7	17	62	10	1	52	5	485
102E 9580N	.8	65	71	8	9	47	10	4250
102E 9600N	.8	50	52	4	4	46	10	1280
102E 9620N	1.0	46	55	5	4	49	5	410
102E 9640N	.8	31	44	3	3	44	5	245
102E 9660N	.7	13	26	6	1	39	5	130
102E 9680N	.8	3	24	5	1	32	5	75
102E 9700N	1.0	10	37	4	1	51	5	785
102E 9720N	.8	1	8	4	1	36	10	40
102E 9740N	1.0	7	17	8	1	61	5	45
102E 9760N	.8	4	11	9	1	28	5	50
102E 9780N	.8	5	11	10	1	54	5	45
102E 9800N	.9	13	13	5	2	35	10	230
102E 9820N	.8	18	15	9	2	55	5	130
102E 9840N	.8	1	9	11	1	64	5	45
102E 9860N	.9	1	9	13	1	61	5	30
102E 9880N	.7	1	14	11	2	63	10	35
102E 9900N	.7	1	15	7	1	65	5	75
102E 9920N	.7	1	6	6	1	53	5	15
102E 9940N	.6	3	15	7	2	58	10	45
102E 9960N	.8	5	20	10	1	97	20	60
102E 9980N	.7	1	10	10	3	73	5	30
102E BL	1.0	4	18	13	2	75	10	35
102E 10020N	.6	13	170	8	1	37	5	1730
102E 10040N	.7	12	99	5	5	50	10	565
102E 10060N	.9	3	21	8	1	50	5	45
102E 10080N	1.1	11	35	11	1	60	5	150
102E 10100N	1.0	5	15	11	1	71	10	30
102E 10120N	.8	19	52	5	1	50	15	1300
102E 10140N	1.3	33	48	12	3	54	40	2125
102E 10160N	1.0	20	45	8	1	43	5	2000
102E 10180N	1.2	1	1	6	1	3	10	395
102E 10200N	1.0	13	58	5	3	61	10	365
102E 10220N	.9	17	61	9	3	78	5	340
102E 10240N	.8	18	49	8	5	50	5	320
102E 10260N	1.0	25	52	7	5	58	5	2125
102E 10280N	1.1	6	16	9	1	65	5	90
102E 10300N	1.2	31	67	7	1	53	5	375
102E 10320N	1.0	20	48	8	1	54	5	400
102E 10340N	1.1	10	25	10	1	58	10	65
102E 10360N	1.2	29	61	10	1	48	50	225
102E 10380N	.6	2	29	5	2	24	20	2750
102E 10400N	1.1	1	17	11	1	76	5	50
102E 10420N	1.2	2	11	9	1	61	5	35
102E 10440N	1.2	16	44	8	2	52	5	390

(VALUES IN PPM)	AS	CS	CU	PB	SB	ZN	AU-PPB	HG-PPB
102E 10460N	.8	1	18	11	1	43	5	320
102E 10480N	.6	2	17	7	3	49	5	795
103E 10520N	.8	11	49	10	4	51	10	1460
103E 10540N	.7	5	24	9	21	56	5	115
103E 10560N	.8	2	17	11	1	112	5	45
103E 10580N	.9	2	11	12	1	76	10	25
103E 10600N	.9	5	24	6	1	59	5	40
103E 10620N	.7	4	14	9	1	64	15	35
103E 10640N	.9	5	20	7	1	65	5	65
103E 10660N	1.0	6	14	11	2	79	5	20
103E 10680N	.8	1	13	10	1	46	5	20
103E 10700N	.8	3	8	9	1	66	10	15
103E 10720N	.9	9	23	11	1	53	5	40
103E 10740N	1.2	3	11	9	2	45	20	25
103E 10760N	.8	10	21	8	2	45	5	85
103E 10780N	1.0	3	20	10	1	77	10	35
103E 10800N	1.0	3	13	12	2	51	10	30
103E 10820N	1.0	1	5	9	1	50	5	15
103E 10840N	1.0	11	20	13	3	65	5	30
103E 10860N	1.0	14	20	9	1	56	20	35
103E 10880N	1.0	3	12	8	1	50	5	15
103E 10900N	1.0	8	22	11	1	44	5	70
104E 9340N	.9	6	13	9	2	32	5	70
104E 9360N	1.2	42	115	7	8	48	5	90
104E 9380N	.9	18	41	14	3	53	5	30
104E 9400N	1.0	1	3	7	1	26	10	10
104E 9420N	1.0	31	87	7	4	44	10	70
104E 9440N	1.1	6	15	9	2	59	5	40
104E 9460N	1.2	1	5	8	1	36	5	15
104E 9480N	1.1	1	5	5	1	53	5	15
104E 9500N	.8	1	9	13	2	49	5	40
104E 9520N	.7	1	10	15	1	67	5	25
104E 9540N	.7	5	47	12	2	71	10	225
104E 9560N	.9	7	135	9	5	50	5	465
104E 9580N	.6	4	11	12	1	43	5	95
104E 9600N	.7	1	11	13	1	32	5	85
104E 9620N	.9	1	8	11	1	29	5	50
104E 9640N	.6	4	25	11	1	29	10	220
104E 9660N	.7	11	92	5	3	47	10	5000
104E 9680N	.7	14	42	6	3	41	5	355
104E 9700N	.5	10	56	7	1	50	5	425
104E 9720N 40N	.8	10	93	5	3	42	5	1355
104E 9740N	.7	2	8	12	1	42	5	55
104E 9760N	.8	10	17	5	1	39	5	1420
104E 9780N	.7	5	12	11	1	38	5	70
104E 9800N	.7	9	53	11	5	59	5	1970
104E 9820N	.7	4	17	11	1	50	10	55
104E 9840N	.5	6	12	9	1	48	5	85
104E 9860N	.7	2	12	11	1	52	10	35
104E 9880N	.9	1	6	11	1	31	5	20
104E 9900N	.6	1	8	11	1	41	5	20
104E 9920N	.7	1	20	11	1	30	10	45
104E 9940N	.7	1	11	10	1	51	10	45
104E 9960N	.7	1	5	11	2	64	5	30
104E 9980N	.6	1	6	11	1	32	5	170
104E BL	.9	2	6	10	3	29	10	65
104E 10020N	.6	1	15	8	1	33	5	795
104E 10040N	.7	1	7	12	2	55	5	35
104E 10060N	.6	1	8	12	1	34	5	225
104E 10080N	.7	1	10	12	1	45	5	95

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
104E 10100N	.7	3	10	7	1	46	5	805
104E 10120N	.9	2	10	5	2	37	10	445
104E 10140N	.7	1	10	5	3	45	5	135
104E 10160N	.7	1	9	10	1	67	5	45
104E 10180N	.7	1	8	7	2	54	10	250
104E 10200N	.9	3	15	8	2	75	5	140
104E 10220N	.7	2	13	7	2	83	10	40
104E 10240N	.7	1	10	10	2	71	5	25
104E 10260N	.9	9	36	7	1	58	10	155
104E 10280N	.9	14	47	7	1	66	5	780
104E 10300N	1.0	8	40	12	2	59	5	265
104E 10320N	1.0	15	50	6	1	80	6	290
104E 10340N	.7	17	44	4	1	85	10	450
104E 10360N	.9	4	11	5	1	84	20	95
104E 10380N	.9	6	12	6	1	102	5	180
104E 10400N	1.0	6	17	8	2	89	5	45
104E 10420N	1.0	3	14	7	2	80	5	35
104E 10440N	1.0	20	42	8	3	68	10	85
104E 10460N	1.0	3	16	4	2	56	5	20
104E 10480N	1.0	4	19	7	1	51	5	40
104E 10500N	1.0	2	14	7	2	67	10	25
104E 10520N	.9	3	14	9	1	57	5	40
104E 10540N	.7	2	10	7	2	45	10	25
104E 10560N	.9	10	22	8	2	73	5	40
104E 10580N	.9	56	53	10	5	76	10	55
104E 10600N	.9	2	10	8	1	63	5	40
104E 10620N	.8	1	5	4	1	50	5	20
104E 10640N	.7	4	12	6	2	41	5	40
104E 10660N	.8	28	71	1	5	55	10	450
104E 10680N	1.0	23	32	5	3	57	5	60
104E 10700N	.4	7	16	9	1	53	5	30
104E 10720N	.5	1	10	9	1	48	5	65
104E 10740N	.4	1	6	11	1	48	10	30
104E 10760N	.5	7	12	9	1	58	5	35
104E 10780N	.7	22	24	13	3	50	10	110
104E 10800N	.6	3	12	13	2	64	5	40
104E 10820N	.5	10	15	8	2	92	10	20
104E 10840N	.5	21	17	10	2	77	15	50
104E 10860N	.8	12	19	12	2	46	5	40
104E 10880N	.8	3	8	9	1	42	5	30
104E 10900N	1.1	2	8	9	2	65	5	35
104E 10920N	1.1	12	17	14	2	47	5	50
104E 10940N	.9	13	16	14	2	53	5	35
104E 10960N	.9	23	21	11	2	43	10	30
105E 10020N	.6	4	11	6	1	35	15	8375
105E 10040N	.8	4	12	9	1	35	5	4250
105E 10060N	.6	7	11	7	2	36	15	700
105E 10080N	1.0	6	27	9	1	46	5	2375
105E 10100N	.9	4	17	10	2	51	15	805
105E 10120N	1.0	6	16	8	3	48	5	725
105E 10140N	.7	6	19	5	2	45	5	1150
105E 10160N	.5	6	24	5	1	28	10	1355
105E 10180N	.4	3	22	5	3	45	5	660
105E 10200N	.8	8	23	10	2	32	5	1025
105E 10220N	1.1	7	16	15	3	56	5	945
105E 10240N	.8	1	5	8	1	45	10	55
105E 10260N	.7	1	6	12	1	95	5	45
105E 10280N	.6	1	7	8	2	44	10	50
105E 10300N	.5	1	11	8	1	49	5	60
105E 10320N	.6	19	58	5	1	43	10	1985

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT/FI) PAGE 1 OF 1
 FILE NO: 7-1881/P44-45
 DATE: DEC 8, 1987

(VALUES IN PPM)	AS	AG	CU	PB	SB	ZN	AU-PPB	HG-PPB
105E-10340N	.5	13	44	17	1	40	5	550
105E-10360N	.6	4	14	13	2	43	5	80
105E-10380N	.5	11	32	11	1	77	20	95
105E-10400N	.6	3	8	7	2	78	15	25
105E-10420N	.6	1	3	9	1	48	10	30
105E-10440N	.7	6	15	9	2	57	5	30
105E-10460N	.8	8	34	13	2	72	5	25
105E-10480N	.8	2	15	12	2	79	10	20
105E-10500N	.8	3	13	7	2	39	10	50
105E-10520N	.8	7	22	5	2	46	5	220
105E-10540N	.5	1	8	8	1	62	10	20
105E-10560N	.8	4	11	13	1	50	5	50
105E-10580N	.8	2	10	8	2	88	10	25
105E-10600N	.8	15	38	10	1	49	5	600
105E-10620N	.6	2	13	11	2	77	5	55
105E-10640N	.8	12	45	11	3	63	65	75
105E-10660N	.6	30	48	7	3	47	10	645
105E-10680N	.9	11	27	4	2	49	5	245
105E-10700N	.8	35	45	15	3	91	5	45
105E-10720N	.4	1	4	7	1	25	5	10
105E-10740N	.8	4	8	7	1	79	5	15
105E-10760N	.6	4	13	11	2	118	5	10
105E-10780N	.8	3	10	8	2	72	10	15
105E-10800N	.9	12	15	7	2	48	10	30
105E-10820N	1.2	712	108	14	7	65	70	2750
105E-10840N	.6	209	51	13	2	86	30	30
105E-10860N	.8	19	15	8	2	87	15	30
105E-10880N	.8	13	25	11	2	61	10	80
105E-10900N	.8	11	19	11	1	43	20	25
105E-10920N	.8	19	26	13	2	53	5	60
105E-10940N	.9	26	44	17	2	160	5	70
105E-10960N	.9	7	16	14	2	53	5	20
106E-9340N	.8	10	37	13	3	31	10	20
106E-9360N	.6	1	15	7	1	51	15	20
106E-9380N	.9	50	107	12	7	50	5	1720
106E-9400N	.9	11	37	13	3	42	20	75
106E-9420N	1.0	34	98	10	21	45	30	130
106E-9440N	.8	15	10	10	3	49	5	30
106E-9460N	.5	12	11	11	1	50	5	55
106E-9480N	.8	7	7	9	2	42	5	80
106E-9500N	1.1	1	10	14	2	47	10	25
106E-9520N	1.1	1	36	13	4	52	10	70
106E-9540N	1.2	1	23	10	2	56	5	25
106E-9560N	1.1	1	175	11	2	63	20	110
106E-9580N	1.1	1	57	14	3	74	5	40
106E-9600N	1.4	1	31	14	4	51	5	20
106E-9620N	1.2	1	64	12	3	60	10	35
106E-9640N	1.2	1	178	11	5	48	20	675
106E-9660N	.9	1	26	7	2	35	25	125
106E-9680N	.8	12	74	16	6	78	15	35
106E-9700N	.5	16	68	4	6	39	20	1895
106E-9720N	1.0	30	38	16	10	65	10	640
106E-9740N	.8	11	28	14	4	55	5	110
106E-9760N	.9	1	20	11	3	48	5	100
106E-9780N	.8	5	23	12	3	34	5	170
106E-9800N	.6	30	22	5	3	24	20	3375
106E-9820N	.5	14	58	6	3	27	15	2500
106E-9840N	.8	6	32	7	1	22	35	2750
106E-9860N	1.0	16	45	8	2	38	10	455
106E-9880N	1.0	13	33	5	4	40	15	505

PROJECT NO: SECOND CREEK

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1881/P46+47

ATTENTION: ALVIN JACKSON

(604)980-5814 OR (604)988-4524

& TYPE SOIL GEOCHEM & DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
106E 9900N	.8	13	31	10	2	43	10	320
106E 9920N	1.0	10	25	10	2	42	10	365
106E 9940N	1.1	10	48	12	3	44	5	680
106E 9960N	1.2	11	27	11	4	51	10	250
106E 9980N	.6	14	28	3	1	35	10	2125
106E 1000N	.8	15	34	7	2	40	5	3875
106E 10020N	.6	12	15	5	1	26	5	4375
106E 10040N	.3	5	5	5	2	11	5	5125
106E 10060N	1.3	13	13	7	2	54	5	290
106E 10080N	1.1	13	16	10	2	56	5	415
106E 10100N	1.1	7	17	11	2	68	10	425
106E 10120N	.9	6	9	10	3	51	5	205
106E 10140N	1.0	12	26	11	3	45	5	250
106E 10160N	1.3	9	37	11	4	45	5	65
106E 10180N	1.0	4	10	11	2	30	5	75
106E 10200N	1.0	4	24	14	2	44	5	35
106E 10220N	1.1	5	16	10	2	49	5	100
106E 10240N	1.1	6	14	12	4	59	10	25
106E 10260N	1.1	7	10	13	2	53	5	215
106E 10280N	1.4	6	18	14	3	68	10	25
106E 10300N	1.1	2	15	12	1	49	5	15
106E 10320N	1.4	9	29	13	2	61	5	60
106E 10340N	.9	11	22	12	3	51	10	15
106E 10360N	1.0	12	76	9	4	42	15	295
106E 10380N	.3	1	10	4	1	13	5	20
106E 10400N	N/S							
106E 10420N	.3	1	5	5	1	13	10	15
106E 10440N	.7	2	13	12	1	105	10	15
106E 10460N	.5	33	53	9	1	66	50	30
106E 10480N	.8	4	27	18	2	63	10	15
106E 10500N	.8	1	10	12	1	64	5	5
106E 10520N	.8	1	8	11	1	68	10	10
106E 10540N	.9	1	14	8	1	58	5	10
106E 10560N	.9	5	13	10	1	47	5	5
106E 10580N	1.1	13	28	12	1	133	15	70
106E 10600N	.8	27	49	12	1	127	10	35
106E 10620N	1.0	26	30	9	2	68	25	20
106E 10640N	.9	9	18	13	3	134	5	10
106E 10660N	1.0	22	36	14	2	83	5	10
106E 10680N	.5	41	35	11	2	52	5	25
106E 10700N	1.0	5	15	10	2	73	5	10
106E 10720N	1.0	18	39	13	2	74	10	20
106E 10740N	.8	52	107	3	6	66	110	190
106E 10760N	.9	55	59	7	1	75	20	360
106E 10780N	.7	8	17	12	1	85	5	25
106E 10800N	1.1	7	15	14	1	105	5	15
106E 10820N	.7	5	12	10	1	53	20	10
106E 10840N	.9	12	21	13	1	75	15	20
106E 10860N	.9	5	20	13	2	128	20	20
106E 10880N	.9	26	22	14	3	52	5	15
106E 10900N	.9	99	85	18	4	70	20	50
106E 10920N	1.1	24	45	12	1	58	5	105
106E 10940N	1.1	8	19	13	2	95	15	20
106E 10960N	.4	101	50	14	4	81	20	35
107E 9340N	1.2	19	86	12	3	85	10	50
107E 9360N	.9	3	12	10	1	85	5	25
107E 9380N	1.1	8	29	13	1	62	5	25
107E 9400N	.9	3	26	13	1	68	5	35
107E 9420N	.8	9	56	11	2	47	5	55
107E 9440N	1.0	11	44	11	2	52	5	50

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
107E 9460N	1.1	9	34	8	1	70	5	45
107E 9480N	.9	18	69	9	2	49	10	90
107E 9500N	1.3	18	54	12	3	45	10	75
107E 9520N	.9	5	20	9	2	43	5	30
107E 9540N	1.0	10	38	10	2	46	15	45
107E 9560N	.9	8	22	11	1	69	5	20
107E 9580N	.9	92	64	6	13	121	10	170
107E 9600N	.9	19	60	13	3	128	5	585
107E 9620N	1.1	16	98	13	5	90	10	140
107E 9640N	.9	14	257	7	1	58	20	510
107E 9660N	.9	6	34	11	1	78	15	45
107E 9680N	1.1	17	96	12	3	69	20	120
107E 9700N	1.2	28	171	10	3	96	10	3000
107E 9720N	.9	33	170	8	10	56	20	2750
107E 9740N	.9	17	169	7	4	43	5	1300
107E 9760N	1.1	84	34	9	36	67	5	5625
107E 9780N	.6	35	81	4	17	30	5	1185
107E 9800N	1.1	22	80	10	6	45	10	610
107E 9820N	.8	28	40	8	5	43	15	1890
107E 9840N	.7	30	23	9	5	52	5	5250
107E 9860N	.9	40	20	6	1	53	10	4625
107E 9880N	1.0	48	25	8	6	45	5	1415
107E 9900N	.8	19	10	5	1	23	15	4375
107E 9920N	.7	24	18	5	3	43	20	4875
107E 9940N	1.0	8	14	11	3	72	10	160
107E 9960N	1.0	7	13	10	2	55	20	190
107E 9980N	1.1	21	17	12	2	48	15	545
107E BL	1.1	12	13	10	2	76	10	60
107E 10020N	1.2	11	18	13	1	41	5	155
107E 10040N	1.0	32	15	8	3	35	10	590
107E 10060N	.5	33	15	11	1	47	5	70
107E 10080N	.6	8	14	15	2	36	15	720
107E 10100N	.8	5	16	8	1	81	20	55
107E 10120N	.9	10	29	10	1	55	5	310
107E 10140N	1.1	2	11	9	2	44	20	25
107E 10160N	1.0	1	7	10	2	50	5	45
107E 10180N	.9	2	14	12	2	58	5	105
107E 10200N	.9	3	9	10	1	64	5	25
107E 10220N	.4	1	5	9	1	43	15	15
107E 10240N	.8	4	11	9	1	53	10	20
107E 10260N	.9	2	9	12	2	70	5	30
107E 10280N	.8	2	11	10	1	48	5	60
107E 10300N	1.2	5	22	8	2	80	15	25
107E 10320N	.9	8	17	9	2	55	5	35
107E 10340N	1.1	4	8	9	2	52	5	15
107E 10360N	.9	27	30	10	2	46	15	45
107E 10380N	.9	5	10	10	2	90	5	20
107E 10400N	.8	23	22	9	2	74	10	45
107E 10420N	1.0	9	15	10	2	40	15	25
107E 10440N	.3	31	33	7	1	38	10	35
107E 10460N	.8	79	37	8	4	74	10	65
107E 10480N 40N	1.4	24	64	18	7	59	5	110
107E 10500N	1.5	8	90	20	1	72	5	75
107E 10520N	1.6	6	88	19	8	71	25	100
107E 10540N	1.1	24	43	10	2	53	20	150
107E 10560N	.9	46	52	6	1	56	60	375
107E 10580N	1.0	34	35	9	2	64	30	80
107E 10600N	.8	39	41	8	2	71	45	165
107E 10620N	1.0	9	9	11	2	78	10	30
107E 10640N	1.0	21	18	17	4	65	5	35

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

XIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P50+51
 * TYPE SOIL GEOCHEM * DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
107E-10660N	.6	19	17	10	2	49	5	35
107E-10680N	.7	16	15	8	2	56	5	25
107E-10700N	.9	36	23	10	3	75	10	50
107E-10720N	1.0	27	13	9	2	57	5	30
107E-10740N	1.2	14	20	13	3	131	5	25
107E-10760N	1.2	7	15	10	2	71	5	20
107E-10780N	1.5	11	27	14	2	103	10	40
107E-10800N	1.4	5	14	13	2	107	10	15
107E-10820N	1.1	8	17	8	1	89	5	20
107E-10840N	1.1	7	12	9	1	73	5	20
107E-10860N	.9	9	12	9	3	65	10	20
107E-10880N	1.1	10	21	13	2	62	5	20
107E-10900N	1.0	21	43	10	3	68	5	80
107E-10920N	1.3	32	50	17	3	74	10	200
107E-10940N	.9	30	86	14	5	69	5	515
107E-10960N	.9	58	70	17	1	81	5	600
108E-9400N	1.0	12	86	12	1	59	5	60
108E-9420N	1.5	15	56	13	2	56	5	230
108E-9440N	1.2	143	172	13	10	61	10	450
108E-9460N	1.3	160	196	10	15	98	5	175
108E-9480N	.7	74	279	8	2	42	5	780
108E-9500N	.9	84	310	9	6	56	5	545
108E-9520N	1.0	13	48	13	4	61	10	80
108E-9540N	.8	9	140	12	2	63	5	60
108E-9560N	.9	17	135	9	3	62	5	190
108E-9580N	.8	20	359	6	5	60	5	130
108E-9600N	.8	116	241	9	11	71	5	470
108E-9620N	1.0	38	107	9	7	74	5	45
108E-9640N	.4	68	103	10	8	55	10	50
108E-9660N	.8	11	21	6	2	51	5	20
108E-9680N	.5	25	46	13	2	124	5	45
108E-9700N	.5	44	99	9	8	76	5	645
108E-9720N	.6	20	161	3	7	39	20	68750
108E-9740N	.6	13	86	3	7	27	10	7250
108E-9760N	.7	16	96	7	7	35	15	10000
108E-9780N	.5	16	120	5	5	54	15	12250
108E-9800N	.3	27	35	12	5	33	10	2250
108E-9820N	.5	8	15	8	4	44	5	1840
108E-9840N	.8	20	51	10	3	35	5	3750
108E-9860N	.5	20	28	6	1	37	5	2250
108E-9880N	.8	15	34	9	5	34	10	1195
108E-9900N	.7	21	21	6	4	27	50	1715
108E-9920N	.8	35	16	12	4	50	5	485
108E-9940N	1.1	22	39	11	5	66	5	225
108E-9960N	1.2	8	39	12	1	65	5	170
108E-9980N	.7	1	7	16	1	55	5	170
108E-10000N	.7	9	10	4	2	50	5	745
108E-10020N	.7	14	16	5	3	24	15	6350
108E-10040N	.9	8	14	10	2	44	5	110
108E-10060N	.7	2	7	12	2	28	10	75
108E-10080N	.8	3	9	7	1	30	5	75
108E-10100N	1.1	3	11	8	2	54	5	45
108E-10120N	1.1	7	30	10	2	43	5	90
108E-10140N	1.3	7	17	11	2	50	5	65
108E-10160N	1.0	13	40	11	3	51	5	410
108E-10180N	1.0	3	19	8	1	70	5	60
108E-10200N	1.1	5	15	11	1	55	5	35
108E-10220N	1.1	8	26	11	1	98	5	40
108E-10240N	.8	10	25	13	2	66	5	35
108E-10260N	1.1	9	38	12	2	73	5	45

COMPANY: CYPRUS MINERALS
PROJECT NO: SECOND CREEK
ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
FILE NO: 7-1881/P52
* TYPE SOIL GEOCHEM * DATE: DEC 8, 1987

(VALUES IN PPM)	AS	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
10BE 10280N	.6	14	17	15	2	56	5	25
10BE 10300N	.5	10	17	15	2	64	5	25
10BE 10320N	.7	56	48	9	5	90	10	35
10BE 10340N	.8	13	29	7	3	88	5	20
10BE 10360N	.9	13	37	9	3	71	5	25
10BE 10380N	1.3	7	51	6	1	63	15	55
10BE 10400N	.7	12	26	11	2	58	5	35
10BE 10420N	1.0	6	19	9	2	56	5	25
10BE 10440N	1.2	5	15	11	1	63	5	1875
10BE 10460N	.9	11	20	9	3	50	5	30
10BE 10480N	.8	12	21	12	2	73	5	55
10BE 10500N	.9	24	21	13	2	64	5	35
10BE 10520N	.7	8	14	10	2	80	5	25
10BE 10540N	.9	15	17	11	3	55	5	45
10BE 10560N	1.0	8	14	7	2	84	5	30
10BE 10580N	1.0	8	11	11	2	51	5	30
10BE 10600N	1.0	63	55	12	5	60	10	700
10BE 10620N	.8	5	9	9	2	69	5	20
10BE 10640N	.8	26	41	15	3	66	5	50
10BE 10660N	.9	11	17	13	1	66	5	35
10BE 10680N	.8	4	10	9	1	66	5	25
10BE 10700N	1.0	9	14	10	2	62	5	20
10BE 10720N	.7	20	9	10	2	61	10	25
10BE 10740N	1.0	43	19	11	2	59	10	25
10BE 10760N	.9	5	10	11	1	87	5	20
10BE 10780N	.9	8	14	8	1	79	5	25
10BE 10800N	1.1	4	12	13	2	98	5	20
10BE 10820N	1.1	5	11	11	2	54	5	30
10BE 10840N	1.0	10	14	9	1	63	10	35
10BE 10860N	1.3	5	13	13	3	96	5	25

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P53
 * TYPE SDIL BEDCHEN * DATE: DEC 8, 1987

(VALUES IN PPM)	AS	AG	CU	PB	SB	ZN	AU-PPB	HG-PPB
108E 10880N	.6	1	9	13	2	75	5	20
108E 10900N	.9	3	15	12	3	110	5	20
108E 10920N	.8	2	13	7	1	71	5	25
108E 10940N	.6	1	9	9	2	97	10	25
108E 10960N	.7	1	9	11	2	99	5	25
109E 9300N	.7	3	11	9	1	25	5	240
109E 9320N	.8	31	58	7	11	29	10	25
109E 9340N	.9	5	20	8	1	31	5	20
109E 9360N	.8	7	22	9	2	35	5	55
109E 9380N	.9	4	12	10	1	28	5	20
109E 9400N	.7	4	22	7	1	45	5	20
109E 9420N	1.0	4	12	7	2	27	5	45
109E 9440N	1.2	8	25	9	1	41	5	60
109E 9460N	1.0	7	36	9	2	39	10	30
109E 9480N	1.1	3	23	10	2	56	5	35
109E 9500N	.9	21	54	9	1	60	5	60
109E 9520N	.8	48	112	7	3	53	5	200
109E 9540N	.9	14	38	11	1	68	5	55
109E 9560N	.8	32	248	10	1	63	10	3500
109E 9580N	.8	11	265	4	3	55	5	700
109E 9600N	.7	312	175	5	2	56	5	1030
109E 9620N	.8	72	159	7	5	73	10	920
109E 9640N	.7	23	102	7	3	57	5	715
109E 9660N	.9	11	62	11	4	57	10	320
109E 9680N	.7	22	198	13	5	55	5	465
109E 9700N	.5	6	65	9	1	40	10	1060
109E 9720N	.8	13	24	4	4	60	5	605
109E 9740N	.7	21	93	4	1	50	10	2625
109E 9760N	.7	22	193	5	1	58	5	750
109E 9780N	.9	14	48	9	2	104	5	95
109E 9900N	.9	9	101	7	5	50	5	60
109E 9920N	1.1	4	27	9	1	43	5	15
109E 9940N	1.1	4	18	11	1	48	10	10
109E 9960N	.9	4	7	6	1	40	5	10
109E 9980N	1.3	6	38	10	1	33	5	5

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P54
 * TYPE SOIL GEOCHEM * DATE: DEC 8, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
109E 9800N	.6	18	31	11	1	52	5	670
109E 9820N	.3	16	42	9	1	60	5	110
109E 9840N	.6	17	65	6	4	61	5	40
109E 9860N	.7	8	58	8	5	69	10	40
109E 9880N	.9	19	114	5	1	51	5	920
109E 9900N	.8	5	29	7	1	50	5	45
109E 10020N	.9	5	22	10	1	63	5	30
109E 10040N	1.1	3	16	9	1	86	5	45
109E 10060N	1.1	8	32	10	1	60	5	50
109E 10080N	1.0	1	15	15	1	52	10	25
109E 10100N	1.0	3	23	11	1	61	5	30
109E 10120N	.9	2	15	9	1	52	5	30
109E 10140N	.9	4	23	8	1	80	5	25
109E 10160N	1.0	2	13	8	1	35	10	15
109E 10180N	1.1	5	17	10	1	67	5	25
109E 10200N	1.1	15	24	12	1	77	5	35
109E 10220N	.8	8	21	10	1	90	10	40
109E 10240N	.9	7	15	12	1	57	5	45
109E 10260N	.9	22	30	10	1	53	5	30
109E 10280N	1.2	22	40	13	2	63	10	60
109E 10300N	.9	62	46	8	2	57	5	75
109E 10320N	1.2	8	15	10	2	70	5	25
109E 10340N	1.0	10	14	13	2	55	5	30
109E 10360N	1.1	4	13	10	1	68	5	25
109E 10380N	1.1	4	12	9	1	81	5	15
109E 10400N	.8	2	7	8	1	51	5	20
109E 10420N	.8	22	12	7	2	45	10	175
109E 10440N	.9	6	15	11	1	59	5	30
109E 10460N	.7	2	13	9	1	67	5	20
109E 10480N	.8	3	7	9	1	58	5	25

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P55+56
 * TYPE SOIL GEOCHEM * DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
109E 10500N	.7	6	14	5	3	55	5	20
109E 10520N	.8	34	48	9	11	71	5	50
109E 10540N	.8	27	36	10	11	118	90	45
109E 10560N	1.1	21	24	8	2	60	5	25
109E 10580N	1.0	4	13	9	2	106	20	20
109E 10600N	.9	6	18	10	1	102	5	15
109E 10620N	1.2	6	13	9	1	123	5	25
109E 10640N	1.0	8	16	10	1	52	5	30
109E 10660N	1.0	5	13	12	2	66	5	20
109E 10680N	1.0	7	11	7	3	42	10	25
109E 10700N	.9	17	25	12	2	85	5	20
109E 10720N	.6	5	9	11	1	90	5	15
109E 10740N	.9	1	8	7	1	51	5	15
109E 10760N	1.0	8	14	12	1	58	5	25
109E 10780N	.9	9	15	11	2	63	5	20
109E 10800N	.9	17	14	11	2	44	10	25
109E 10820N	.7	9	16	10	1	75	5	30
109E 10840N	.8	4	12	10	1	80	5	15
109E 10860N	1.1	9	14	11	2	54	5	15
109E 10880N	.9	9	10	11	2	57	5	25
109E 10900N	.7	25	20	10	1	83	5	20
109E 10920N	.8	9	30	12	1	94	5	45
109E 10940N	1.0	5	10	14	1	53	5	25
109E 10960N	1.2	9	16	12	2	99	10	20
109E 10980N	.7	2	11	8	1	59	5	20
110E 9300N	.9	4	14	10	2	90	5	15
110E 9320N	1.0	198	29	12	25	108	15	60
110E 9340N	.7	620	96	10	111	93	15	16795
110E 9360N	.7	261	60	18	28	55	15	525
110E 9380N	.6	55	57	9	7	44	5	75
110E 9400N	.4	47	47	10	3	51	10	25
110E 9420N	.3	24	51	7	2	64	5	105
110E 9440N	.7	6	13	10	1	64	5	10
110E 9460N	.7	75	130	5	7	53	5	830
110E 9480N	.6	141	131	9	3	54	10	405
110E 9500N	.6	19	45	8	3	78	5	400
110E 9520N	.6	22	33	10	3	44	5	365
110E 9540N	.5	13	39	6	1	50	10	960
110E 9560N	.4	3	10	12	2	71	5	95
110E 9580N	.6	4	10	6	2	58	5	55
110E 9600N	.6	13	32	8	2	45	5	335
110E 9620N	.7	9	44	7	1	57	5	50
110E 9640N	.8	5	14	10	1	45	5	30
110E 9660N	.9	6	12	10	2	40	5	15
110E 9680N	.6	22	34	6	2	44	5	90
110E 9700N	.7	4	16	10	2	66	5	60
110E 9720N	.8	8	20	7	2	80	10	85
110E 9740N	.8	3	10	11	1	37	5	30
110E 9760N	.8	5	28	11	1	68	5	60
110E 9780N	.6	5	27	11	1	79	5	20
110E 9800N	.7	4	8	7	2	35	10	25
110E 9820N	.6	5	20	8	1	76	5	30
110E 9840N	.7	5	17	5	1	57	5	40
110E 9860N	.6	13	21	10	2	66	5	25
110E 9880N	.8	5	14	9	2	40	10	30
110E 9900N	.9	7	14	10	2	34	5	30
110E 9920N	.7	4	10	9	3	30	5	25
110E 9940N	.9	11	22	14	3	86	5	40
110E 9960N	.8	12	37	8	3	101	5	20
110E 9980N	.9	7	11	10	1	89	10	25

PROJECT NO: SECOND CREEK

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1881/P57+58

ATTENTION: ALVIN JACKSON

(604)980-5814 OR (604)988-4524

* TYPE SOIL GEOCHEM * DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
110E 9980N	.8	2	8	11	2	35	5	15
110E BL	.7	1	9	11	1	47	5	15
110E 10020N	.7	3	8	11	1	41	5	20
110E 10040N	.7	8	20	14	2	67	10	40
110E 10060N	.8	5	10	10	2	45	10	20
110E 10080N	.9	8	17	14	2	50	5	25
110E 10100N	.9	31	66	11	4	65	10	95
110E 10120N	.8	26	42	10	16	57	5	375
110E 10140N	.7	78	149	5	15	63	10	1485
110E 10160N	.9	7	14	12	2	69	5	30
110E 10180N	.7	12	16	11	1	57	5	45
110E 10200N	.7	27	30	7	2	63	5	45
110E 10220N	.8	21	16	10	3	42	5	25
110E 10240N	.6	30	18	10	4	36	10	55
110E 10260N	.9	91	82	14	4	68	50	435
110E 10280N	.7	148	117	7	11	94	10	1990
110E 10300N	.7	53	26	10	4	58	5	210
110E 10320N	.8	180	171	10	5	80	35	910
110E 10340N	.9	40	50	8	2	73	5	55
110E 10360N	.9	30	33	16	3	84	5	45
110E 10380N	1.0	106	87	11	5	85	10	60
110E 10400N	.7	109	46	14	4	74	10	30
110E 10420N	.7	42	27	19	2	63	5	20
110E 10440N	.7	32	31	8	2	59	5	15
110E 10460N	.8	29	37	8	1	60	5	55
110E 10480N	1.0	27	25	9	2	66	10	35
110E 10500N	1.0	33	27	10	3	47	5	95
110E 10520N	.5	29	51	5	2	32	5	165
110E 10540N	.9	7	8	10	2	61	5	20
110E 10560N	1.1	27	30	10	2	71	10	55
110E 10580N	1.1	7	30	21	2	104	5	30
110E 10600N	.6	7	14	12	2	57	5	20
110E 10620N	.8	9	15	12	2	60	10	15
110E 10640N	.9	9	12	12	2	74	10	20
110E 10660N	.8	14	17	10	2	56	15	25
110E 10680N	.6	18	33	9	1	70	10	15
110E 10700N	.8	3	14	7	1	87	5	10
110E 10720N	.8	3	10	9	2	116	10	15
110E 10740N	.8	6	19	11	1	77	5	15
110E 10760N	.8	7	20	10	2	85	5	30
110E 10780N	.9	9	22	15	2	89	5	20
110E 10800N	.6	19	44	15	2	48	5	120
110E 10820N	.4	14	43	11	1	52	10	130
110E 10840N	.9	44	30	10	8	77	10	30
110E 10860N	1.0	13	20	11	1	74	10	30
110E 10880N 40N	.8	45	85	16	1	71	15	105
110E 10900N	.9	21	48	15	1	98	10	35
110E 10920N	.9	23	52	12	2	78	5	55
110E 10940N	.9	54	73	15	2	67	10	130
110E 10960N	.8	23	30	12	2	74	5	45
110E 10980N	.6	3	140	12	3	59	5	50
110E 11000N	1.0	14	33	15	2	75	10	45
111E 9300N	.8	84	46	10	13	47	5	35
111E 9320N	.9	98	34	8	7	49	10	60
111E 9340N	.8	27	48	5	3	43	10	30
111E 9360N	.8	13	26	10	3	62	5	10
111E 9380N	1.1	65	62	10	6	95	10	115
111E 9400N	1.0	85	74	11	9	65	10	960
111E 9420N	1.2	28	114	12	2	63	20	130
111E 9440N	1.0	187	135	10	18	55	15	580

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT/F31) PAGE 1 OF 1
 FILE NO: 7-1881/P59+60
 # TYPE SOIL GEOCHEM # DATE: DEC 11 1987

(VALUES IN PPM)	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB	
111E 9460N	.8	10	24	8	1	49	10	120
111E 9480N	.5	5	16	9	3	48	5	45
111E 9500N	.8	15	34	8	1	58	5	115
111E 9520N	.8	11	22	10	4	42	5	150
111E 9540N	.8	3	9	9	2	41	10	35
111E 9560N	.6	5	11	6	1	68	5	25
111E 9580N	.6	15	10	10	1	34	5	30
111E 9600N	.7	5	12	7	2	59	5	25
111E 9620N	.6	15	25	5	4	53	5	105
111E 9640N	.6	4	13	9	3	69	5	30
111E 9660N	.6	11	23	9	3	43	10	90
111E 9680N	.6	16	32	7	1	63	5	160
111E 9700N	.8	33	30	6	2	84	10	86
111E 9720N	.6	11	11	9	1	50	5	30
111E 9740N	.7	12	25	9	1	68	5	35
111E 9760N	.7	6	12	10	2	70	5	15
111E 9780N	.6	11	71	17	1	60	5	25
111E 9800N	.9	12	34	10	1	68	5	20
111E 9820N	.7	18	44	8	5	55	10	30
111E 9840N	.6	3	11	9	1	45	5	35
111E 9860N	.6	15	25	5	1	43	5	335
111E 9880N	.6	9	20	9	2	68	20	90
111E 9900N	.6	5	15	8	3	88	5	25
111E 9920N	1.0	18	24	7	1	72	5	40
111E 9940N	.8	20	31	9	2	67	5	25
111E 9960N	.9	41	31	8	4	66	10	50
111E 9980N	.8	25	38	10	3	63	5	20
111E BL	.8	14	29	9	1	76	20	35
111E 10020N	.6	20	21	10	1	54	10	25
111E 10040N	.9	14	42	9	1	111	5	30
111E 10060N	.6	11	21	13	3	108	5	20
111E 10080N	.7	1	8	10	1	64	10	15
111E 10100N	.7	10	26	8	1	70	5	20
111E 10120N	.6	10	15	7	1	44	5	10
111E 10140N	.7	3	8	8	1	49	10	15
111E 10160N	.5	13	12	6	2	44	5	20
111E 10180N	.6	1	15	10	1	115	5	15
111E 10200N	.7	49	18	7	2	52	5	25
111E 10220N 40N	.8	136	32	5	5	60	5	55
111E 10240N	.7	22	11	9	2	32	20	25
111E 10260N	.8	38	11	6	2	31	10	40
111E 10280N	.8	26	13	11	1	52	5	25
111E 10300N	.7	38	24	8	1	42	5	40
111E 10320N	.8	24	23	13	1	48	5	20
111E 10340N	1.1	13	20	13	1	60	5	15
111E 10360N	.8	86	114	8	5	70	10	650
111E 10380N	.9	17	37	11	1	56	5	25
111E 10400N	.8	34	62	11	4	77	5	195
111E 10420N	1.2	8	20	10	1	46	5	25
111E 10440N	1.0	7	21	12	1	46	10	20
111E 10460N	.9	3	11	6	1	77	5	20
111E 10480N	1.1	8	19	13	1	59	5	25
111E 10500N	.5	34	68	16	4	59	10	250
111E 10520N	.7	10	88	20	1	82	5	70
111E 10540N	.6	139	36	8	3	68	10	75
111E 10560N	.8	90	18	12	4	70	5	25
111E 10580N	.6	110	29	12	5	70	5	50
111E 10600N	N/S							
111E 10620N	.8	4	8	7	2	84	10	20
111E 10640N	1.0	7	18	9	1	71	10	35

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT7F31) PAGE 1 OF 1
 FILE NO: 7-1881/P61+62
 # TYPE SOIL GEOCHEM # DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
112E 9540N	.8	7	19	9	1	41	5	155
112E 9560N	.7	14	40	9	5	52	5	210
112E 9580N	.7	12	28	9	1	42	15	130
112E 9600N	.6	6	18	8	3	47	5	90
112E 9620N	.8	19	32	9	1	47	15	370
112E 9640N	.9	12	20	9	1	40	20	85
112E 9660N	.6	35	42	9	2	51	35	210
112E 9680N	.8	15	15	10	2	60	5	60
112E 9700N	.8	9	11	10	1	57	5	55
112E 9720N	1.0	66	22	13	5	166	15	400
112E 9740N	.5	4	10	11	1	60	5	35
112E 9760N	.9	6	20	13	1	103	5	30
112E 9780N	.5	7	12	5	1	58	5	35
112E 9800N	.7	2	13	6	1	42	5	40
112E 9820N	.8	7	15	10	2	68	5	50
112E 9840N	.9	12	18	13	3	61	5	40
112E 9860N	.7	5	7	10	1	40	5	50
112E 9880N	.7	7	18	10	1	28	5	35
112E 9900N	.7	4	10	10	1	48	5	30
112E 9920N	.5	11	11	6	1	46	10	15
112E 9940N	.7	5	24	13	1	92	5	20
112E 9960N	1.1	23	46	11	2	74	10	45
112E 9980N	.9	40	120	13	4	69	40	65
112E BL	.6	17	20	5	1	57	10	30
112E 10020N	.9	12	22	9	3	123	5	20
112E 10040N	.5	5	12	8	1	70	5	15
112E 10060N	.4	4	10	9	1	48	5	10
112E 10080N	.7	9	12	10	2	44	10	20
112E 10100N	.7	18	19	8	2	37	20	10
112E 10120N	.5	3	7	7	1	39	5	10
112E 9540N	.8	7	19	9	1	41	5	155
112E 9560N	.7	14	40	9	5	52	5	210
112E 9580N	.7	12	28	9	1	42	15	130
112E 9600N	.6	6	18	8	3	47	5	90
112E 9620N	.8	19	32	9	1	47	15	370
112E 9640N	.9	12	20	9	1	40	20	85
112E 9660N	.6	35	42	9	2	51	35	210
112E 9680N	.8	15	15	10	2	60	5	60
112E 9700N	.8	9	11	10	1	57	5	55
112E 9720N	1.0	66	22	13	5	166	15	400
112E 9740N	.5	4	10	11	1	60	5	35
112E 9760N	.9	6	20	13	1	103	5	30
112E 9780N	.5	7	12	5	1	58	5	35
112E 9800N	.7	2	13	6	1	42	5	40
112E 9820N	.8	7	15	10	2	68	5	50
112E 9840N	.9	12	18	13	3	61	5	40
112E 9860N	.7	5	7	10	1	40	5	50
112E 9880N	.7	7	18	10	1	28	5	35
112E 9900N	.7	4	10	10	1	48	5	30
112E 9920N	.5	11	11	6	1	46	10	15
112E 9940N	.7	5	24	13	1	92	5	20
112E 9960N	1.1	23	46	11	2	74	10	45
112E 9980N	.9	40	120	13	4	69	40	65
112E BL	.6	17	20	5	1	57	10	30
112E 10020N	.9	12	22	9	3	123	5	20
112E 10040N	.5	5	12	8	1	70	5	15
112E 10060N	.4	4	10	9	1	48	5	10
112E 10080N	.7	9	12	10	2	44	10	20
112E 10100N	.7	18	19	8	2	37	20	10
112E 10120N	.5	3	7	7	1	39	5	10

PROJECT NO: SECOND CREEK

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1881/P63+64

ATTENTION: ALVIN JACKSON

(604)980-5814 OR (604)988-4524

* TYPE SOIL GEOCHEM * DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
112E 10140N	.5	2	6	9	1	39	5	10
112E 10160N	.8	1	7	7	1	43	10	20
112E 10180N	.7	29	32	7	1	48	10	50
112E 10200N	.6	3	9	12	1	54	5	10
112E 10220N	.8	37	42	5	1	44	5	55
112E 10240N	.7	46	35	4	2	52	10	90
112E 10260N	.8	47	45	6	1	60	5	100
112E 10280N 40M	.9	36	37	8	1	66	5	135
112E 10300N	.9	2	7	6	1	36	5	15
112E 10320N	1.0	26	21	12	1	56	10	20
112E 10340N	.8	15	24	4	4	54	10	25
112E 10360N	.9	8	11	7	1	47	15	25
112E 10380N	.6	2	6	9	1	46	5	10
112E 10400N	.8	8	13	7	1	57	5	20
112E 10420N	.7	3	11	10	1	74	5	55
112E 10440N	.9	65	75	13	1	71	5	255
112E 10460N 40M	.5	69	81	11	5	66	5	215
112E 10480N 40M	.7	70	91	8	6	71	5	195
112E 10500N	.8	7	14	10	1	77	5	30
112E 10520N 40M	.9	57	115	7	1	70	10	130
112E 10540N	.9	23	30	12	2	63	10	55
112E 10560N	.8	18	15	6	1	37	5	35
112E 10580N	.7	28	19	12	1	67	10	60
112E 10600N	1.0	913	65	56	10	132	45	340
112E 10620N	.6	33	29	14	1	55	10	95
112E 10640N	.8	11	46	11	4	72	15	45
112E 10660N	.9	4	7	7	2	65	5	10
112E 10680N	.8	9	19	12	3	66	5	50
112E 10700N	.7	5	31	9	1	79	15	40
112E 10720N	1.1	3	6	8	1	70	5	15
112E 10740N	.4	7	15	10	1	64	10	55
112E 10760N	.3	1	7	4	1	44	5	15
112E 10780N	.6	6	18	10	1	73	10	25
112E 10800N 40M	.4	9	36	16	1	62	5	105
112E 10820N	.6	7	34	16	1	72	5	35
112E 10840N	.4	8	46	18	1	170	5	40
112E 10860N	.7	8	62	19	1	77	5	25
112E 10880N	1.1	7	35	17	1	129	5	45
112E 10900N 40M	1.7	19	86	19	7	69	5	120
112E 10920N	.9	9	34	16	5	105	5	70
112E 10940N	1.1	9	48	19	7	87	5	60
112E 10960N	.9	4	16	17	1	85	5	30
112E 10980N 40M	.6	8	45	15	1	63	10	75
112E 11000N 40M	.3	14	52	13	1	71	5	125
113E 9300N	1.2	29	57	7	2	75	5	425
113E 9320N	1.1	27	35	9	2	47	5	85
113E 9340N	.9	21	105	15	1	58	15	60
113E 9360N	1.0	23	49	12	1	56	5	130
113E 9380N	1.0	27	53	8	3	51	5	275
113E 9400N	1.1	12	22	12	2	74	5	80
113E 9420N	1.4	47	126	18	1	73	5	35
113E 9440N	1.7	43	157	21	10	75	5	45
113E 9460N	1.2	15	42	12	1	98	5	20
113E 9480N	.9	12	20	13	2	71	5	50
113E 9500N	1.1	6	30	14	1	159	5	30
113E 9520N	1.1	13	24	7	2	106	5	75
113E 9540N	.8	11	20	9	1	48	5	50
113E 9560N	.8	34	53	8	1	56	5	285
113E 9580N	1.0	18	26	11	1	48	5	100
113E 9600N	1.1	23	35	11	2	53	10	85

COMPANY: CYPRUS MINERALS
 PROJECT NO: SECOND CREEK
 ATTENTION: ALVIN JACKSON

MIN-EN LABS TCP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1881/P65+66
 \$ TYPE SOIL GEOCHEM \$ DATE: DEC 11, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB	HG-PPB
113E 9620N	.7	21	46	10	1	47	5	225
113E 9640N	.7	23	36	10	3	44	10	75
113E 9660N	.9	43	65	11	4	52	10	85
113E 9680N	.7	36	26	11	2	56	10	165
113E 9700N	.8	8	17	12	2	53	5	50
113E 9720N	.7	1	7	9	1	60	5	15
113E 9740N	1.0	6	22	11	2	68	5	10
113E 9760N	1.0	7	18	7	2	58	10	35
113E 9780N	.8	6	20	11	1	58	5	40
113E 9800N	.8	11	33	14	3	74	5	65
113E 9820N	1.1	11	21	8	2	60	5	30
113E 9840N	.7	3	12	11	1	50	5	20
113E 9860N	.8	2	12	8	2	64	5	10
113E 9880N	.9	9	26	15	2	77	5	35
113E 9900N	.6	11	11	11	2	57	5	5
113E 9920N	.9	8	16	11	2	66	5	35
113E 9940N	.8	13	17	15	3	57	10	20
113E 9960N	1.0	3	14	11	1	90	5	20
113E 9980N	.8	13	20	15	1	58	5	65
113E BL	.7	2	10	8	1	53	5	25
113E 10020N	1.0	79	54	10	5	73	40	55
113E 10040N	1.0	26	11	12	2	55	5	25
113E 10060N	N/S							
113E 10080N	1.0	34	63	9	1	84	10	60
113E 10100N	.7	16	7	11	1	33	5	50
113E 10120N	.7	59	30	12	2	43	5	90
113E 10140N	.8	43	8	10	3	39	5	30
113E 10160N	.9	36	9	15	4	46	5	50
113E 10180N	.7	25	10	17	1	36	10	50
113E 10200N	.7	110	22	11	6	46	10	80
113E 10220N	.7	26	16	16	1	56	5	10
113E 10240N	.5	6	7	4	1	26	5	15
113E 10260N	.6	52	32	5	2	48	10	50
113E 10280N	.6	12	25	7	3	41	5	30
113E 10300N	.8	2	7	9	1	55	5	10
113E 10320N	1.7	11	12	8	4	34	10	35
113E 10340N	1.8	10	6	8	3	37	5	15
113E 10360N	.6	5	12	11	1	66	5	15
113E 10380N	.6	41	63	9	5	68	5	150
113E 10400N	.8	5	23	14	1	101	5	10
113E 10420N	.6	1	8	6	1	62	5	15
113E 10440N	.6	2	10	7	3	74	5	20
113E 10460N	.6	1	4	8	1	43	5	10
113E 10480N	.6	16	34	14	1	68	5	75
113E 10500N	.7	27	46	12	1	60	5	125
113E 10520N	.7	3	8	8	3	50	5	15
113E 10540N	.8	9	13	11	1	58	5	85
113E 10560N	.7	2	6	9	1	51	5	15
113E 10580N	.6	6	12	13	3	63	5	15
113E 10600N	.7	3	7	8	1	43	10	10
113E 10620N	.8	4	8	8	1	66	5	15
113E 10640N	.9	3	9	9	2	106	5	10
113E 10660N	.8	5	16	13	1	104	5	5
113E 10680N	.7	11	16	14	3	49	5	10
113E 10700N	.7	36	67	11	4	66	10	220
113E 10720N	.9	9	17	11	3	53	5	10
113E 10740N	.8	6	13	7	1	57	5	10
113E 10760N	.8	8	11	7	1	60	5	10
113E 10780N	.8	13	72	16	3	71	5	100
113E 10800N	1.1	4	27	9	5	78	5	5

COMPANY: CYPRUS METALS
PROJECT NO: SECOND CREEK
ATTENTION: ALVIN JACKSON

705 W.

15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604) 960-5814 OR (604) 988-4524

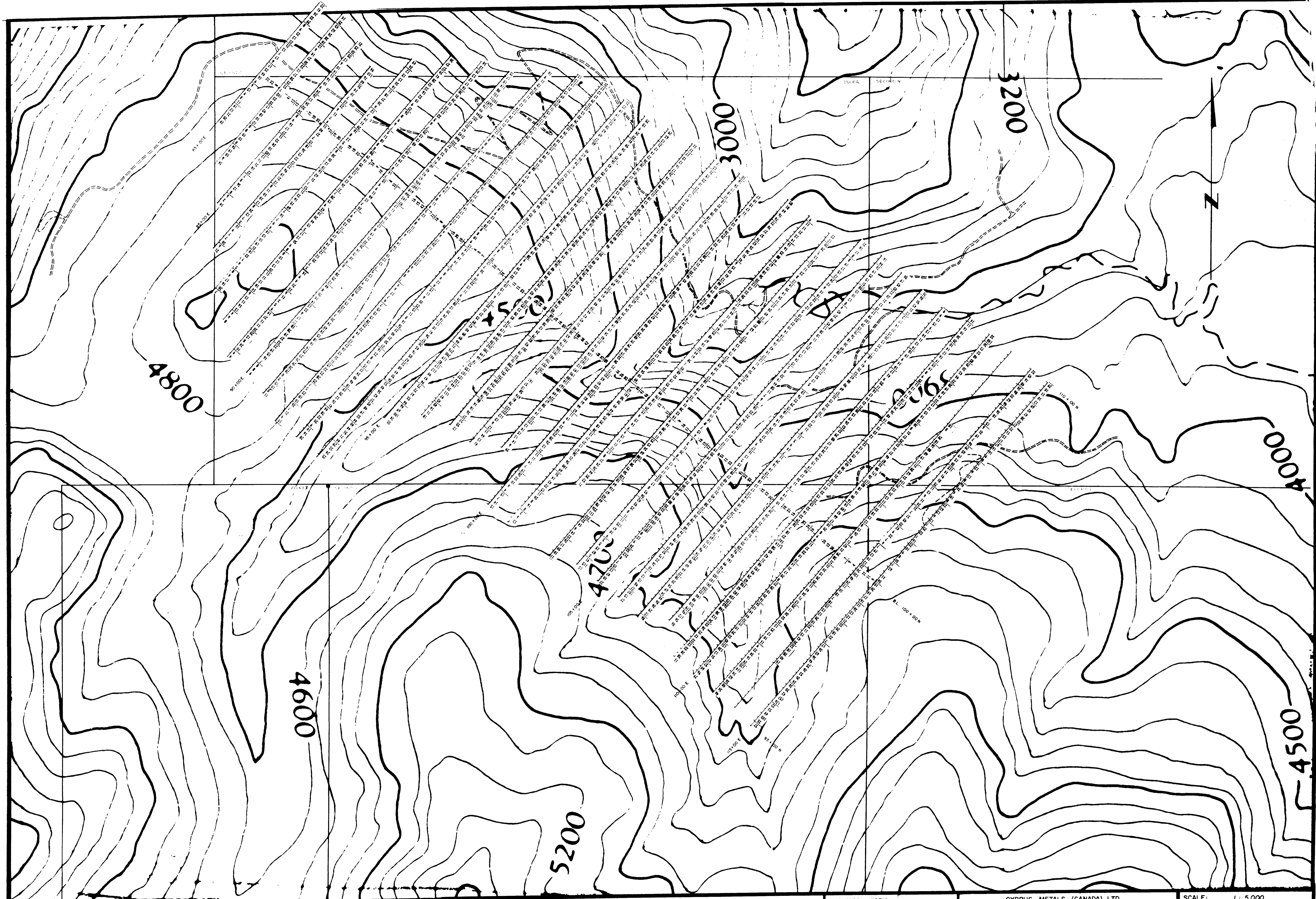
ANALYSIS LABS OF REPORT

ACT: 731 PAGE 1 OF 1

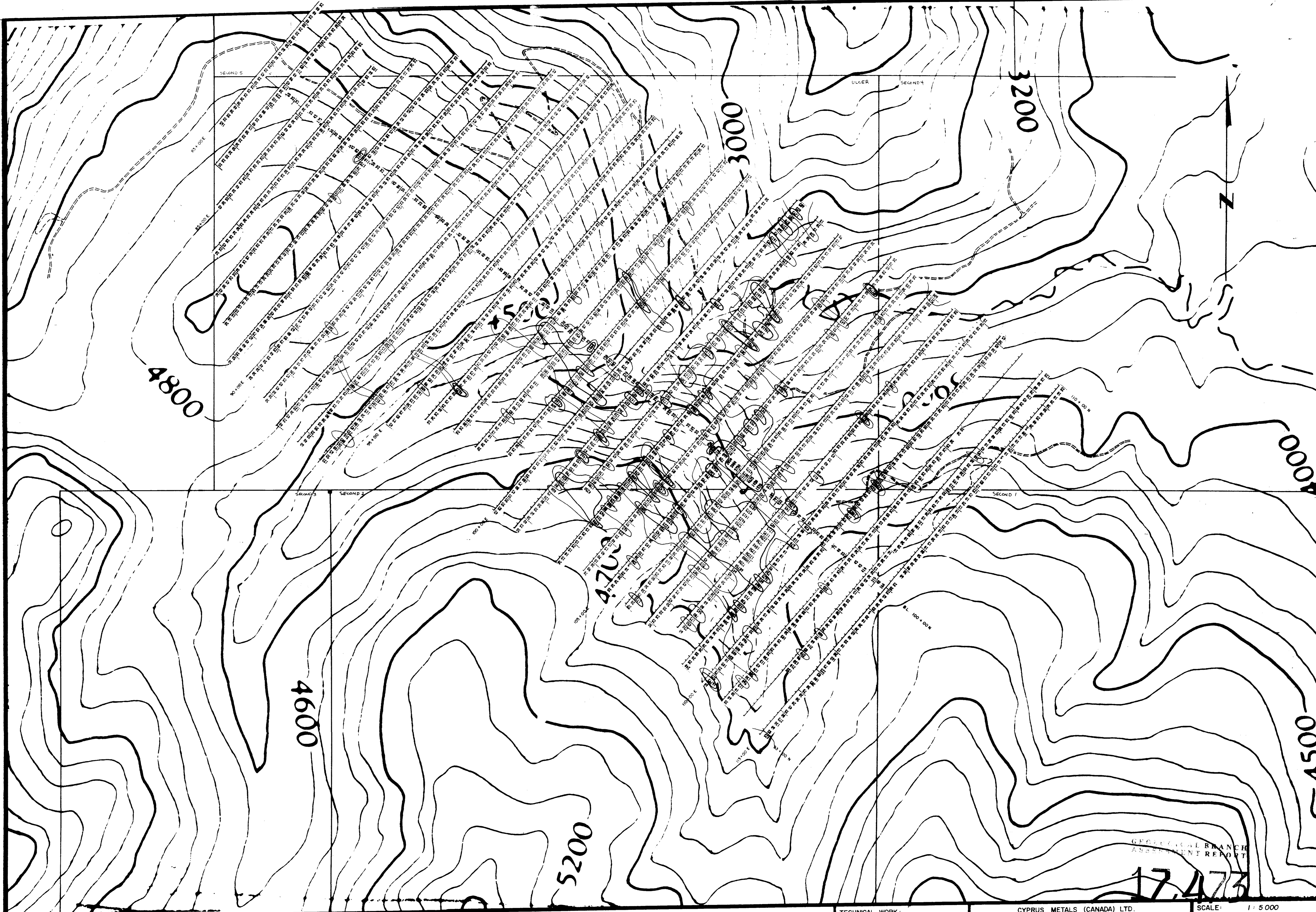
FILE NO: 7-1881-867

TYPE SOIL GEOCHEM DATE: DEC 11, 1987

(VALUES IN PPM	AG	AS	CL	CR	SB	ZN	AU-PPB	HG-PPB
113E 10820N	1.2	4	22	11	1	94	5	20
113E 10840N	.5	5	30	14	0	86	5	40
113E 10860N	.5	8	47	17	6	84	5	25
113E 10880N	.8	7	45	14	2	88	5	30
113E 10900N	.5	11	68	15	5	85	5	50
113E 10920N	1.1	5	11	12	1	131	5	30
113E 10940N	.9	2	10	7	1	72	5	20
113E 10960N	.8	2	11	8	1	61	5	10
113E 10980N	1.0	4	10	10	1	85	10	10
113E 11000N	1.2	9	30	15	2	95	5	25



TECHNICAL WORK: DURFELD GEOLOGICAL MANAGEMENT LTD	CYPRUS METALS (CANADA) LTD.	SCALE: 1 : 5 000
NTS MAPSHEET: 92-0-1	SECOND PROPERTY GEOCHEMICAL PLAN COPPER, ppm GEOLOGICAL BRANCH ASSESSMENT REPORT	DATE: JANUARY 1988
APPROVED BY:	17,473 SECOND CLAIM GROUP CLINTON MINING DIVISION	FIGURES: 6
		DRAWN BY: KEMO DRAFTING SERVICE M.G.F.

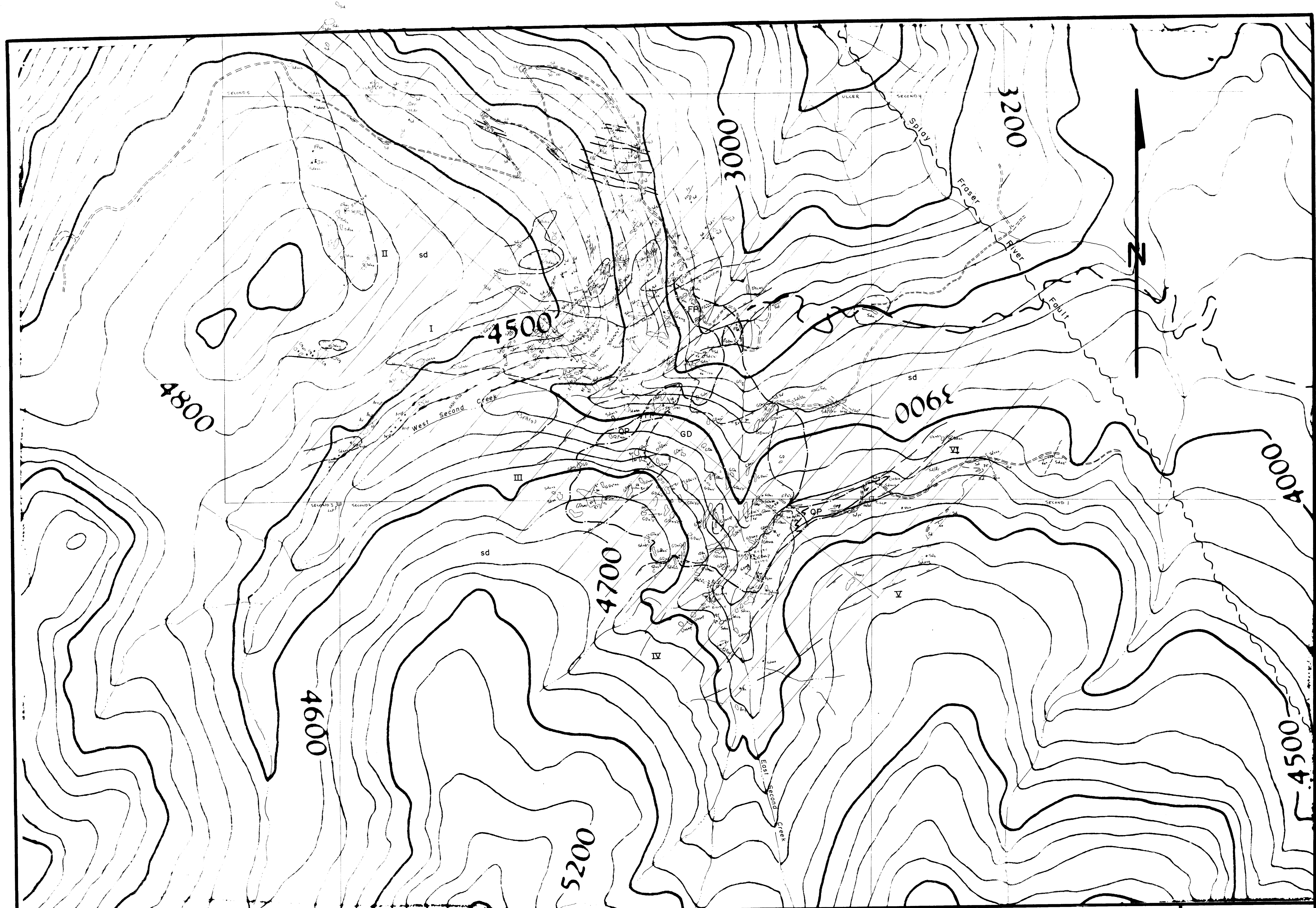


LEGEND
 Soil Sample Location and Value in ppb Mercury
GEOCHEMICAL CONTOURS
 300 ppb Mercury
 1000 ppb Mercury
 Geochemical Low

TECHNICAL WORK:
 DURFELD GEOLOGICAL
 MANAGEMENT LTD
NTS MAPSHEET:
 92-0-1
APPROVED BY:

CYPRUS METALS (CANADA) LTD.
SECOND PROPERTY
 GEOCHEMICAL PLAN
 MERCURY, ppb
 SECOND CLAIM GROUP
 CLINTON MINING DIVISION

SCALE: 1:5000
DATE: JANUARY 1988
FIGURES: 5
DRAWN BY: KEMO DRAFTING SERVICE
 M.G.F.



LEGEND

- Tertiary**
 Tv Basalt and andesite, tuff, breccia flows
 An Andesite dykes
- Upper Cretaceous**
 QP Quartz porphyry
 FP Feldspar porphyry
 GD Granodiorite
- Lower Cretaceous**
JACKASS MOUNTAIN GROUP
 sd Sandstone, greywacke, arkose, minor interbedded siltstone and conglomerate
 ss Siltstone
 Cg Conglomerate
 Un Altered rock
- MODIFIERS**
 s silicification q,qv quartz vein
 a argillic p pyrite
 c carbonate cpy chalcopyrite

- ALTERATION ZONES**
- Intense silicification and argillic alteration +/- carbonate
 - Argillic, carbonate, minor silicification
 - Silicification
- ~~~~~ fault
 50 20 strike/dip - bedding
 20 20 strike/dip - quartz vein
 20-1 rock sample location
 === road
 - - - - - outcrop
 o o o talus, suboutcrop
 - - - - - geological contact

TECHNICAL WORK:
 DURFELD GEOLOGICAL MANAGEMENT LTD

NTS MAPSHEET:
 92-0-1

APPROVED BY:

CYPRUS METALS (CANADA) LTD.

SECOND PROPERTY

GEOLOGICAL BRANCH
 GEOMORPHOLOGICAL REPORT

17,473

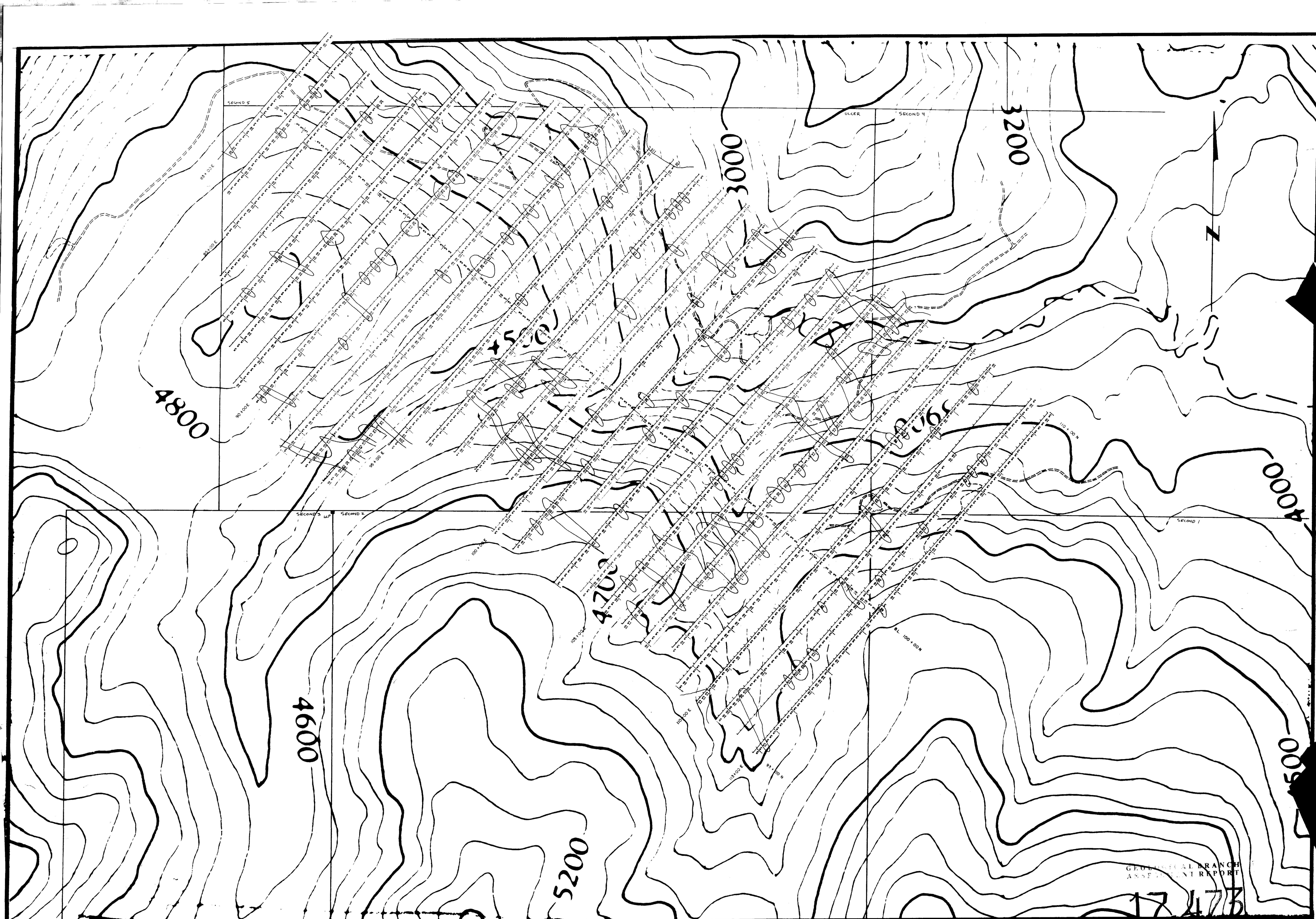
SECOND CLAIM GROUP
 CLINTON MINING DIVISION

SCALE: 1 : 5 000

DATE:
 JANUARY 1988

FIGURES:
 7

DRAWN BY:



GEOLOGICAL BRANCH
ASSESSMENT REPORT

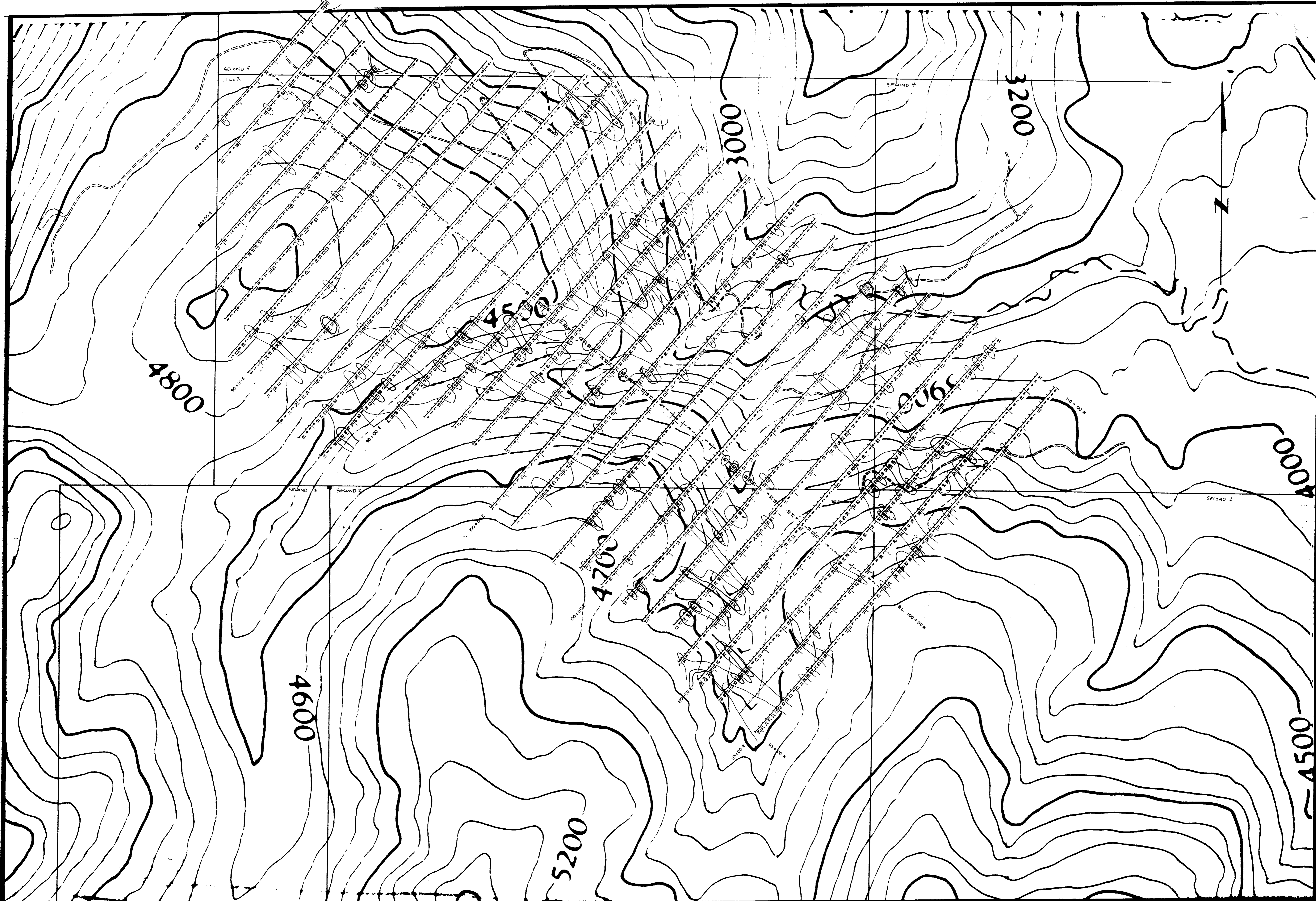
17 473

LEGEND
 Soil Sample Location and Value in ppb Gold
 GEOCHEMICAL CONTOURS
 15 ppb Gold
 Geochemical Low

TECHNICAL WORK:
**DURFELD GEOLOGICAL
 MANAGEMENT LTD**
 NTS. MAPSHEET:
 92-0-1
 APPROVED BY:

CYPRUS METALS (CANADA) LTD.
SECOND PROPERTY
 GEOCHEMICAL PLAN
 GOLD, ppb
 SECOND CLAIM GROUP
 CLINTON MINING DIVISION

SCALE: 1 : 5 000
 DATE: JANUARY 1988
 FIGURES: 3
 DRAWN BY:
 KEMO DRAFTING SERVICE
 M.G.F.



LEGEND
 Soil Sample Location and Value in ppm Arsenic
GEOCHEMICAL CONTOURS
 30 ppm Arsenic
 80 ppm Arsenic
 Geochemical Low

TECHNICAL WORK:
 DURFELD GEOLOGICAL
 MANAGEMENT LTD.

NTS MAPSHEET:
 92-0-1

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CYPRUS METALS (CANADA) LTD.
 SECOND PROPERTY GEOLOGICAL
 ASSESSMENT

GEOCHEMICAL PLAN
 ARSENIC, ppm

SECOND CLAIM GROUP
 CLINTON MINING DIVISION

SCALE: 1:5000

JANUARY 1988

FIGURES 4

DRAWN BY:
 KEMO DRAFTING SERVICE
 M.G.F.

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