

LOG NO: <i>April 23/91 RD.</i>
ACTION:
FILE NO:

Geology and Geochemical Report
on the Takom 1-2 Claims
Horsefly Area, B.C.

NTS 93A/3W

Cariboo Mining Division

Latitude 52° 14' N
Longitude 121° 22' W

Auspex Gold Ltd.
930-800 West Pender Street,
Vancouver, B.C. V6C 2V6

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,221

April 15, 1991

David B. Stevenson BSc., FGAC

SUMMARY AND CONCLUSIONS

Two days were spent evaluating the potential for alkalic porphyry Cu-Au mineralization on the Takom property. The work consisted of geological mapping, soil sampling and examination of four diamond drill holes conducted by a previous operator.

The soil survey confirmed a weak to moderate copper anomaly is associated with the Takom showing, where previous drilling encountered 10.7 meters averaging 0.037 oz/t gold and 0.13% copper. Values of up to 158 ppm copper and 40 ppb gold were detected in this area.

In a second area, to the northeast, background copper-gold values were encountered. The two soil lines put into this area attempted to evaluate, in part, an elliptical mag high feature, similar to that present in the Takom showing area. During the soil sampling procedure it was noted that many samples contained a large amount of very fine grained impervious clay. If this clay horizon is laterally and vertically extensive then this could be, in part, a reason why the Cyprus sampling returned generally negative to weak Cu-Au values.

Geological observations confirmed the disseminated Cu-Au mineralization at the Takom showing is related to potassically altered mafic volcanoclastics which are intruded by a propylitically altered magnetite-rich granodiorite intrusive, likely related to the Takomkane Batholith.

RECOMMENDATIONS

Additional detailed soil sampling, with an auger, is recommended to outline the better Cu-Au anomalies in the Takom showing area. A similar program should be conducted over the mag high area in the northeast corner of the property. If encouraging results are encountered a detailed IP survey should be conducted over the better anomalies to assist in defining drill targets.

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Figure 3	Claim Map
Figure 4	Rockridge Mining (1984) - Au (ppb) in Soil

FIGURES

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1. INTRODUCTION

Two days were spent evaluating the potential for alkalic porphyry Au-Cu mineralization on the Takom property. This work, which consisted of soil sampling and geological mapping, was conducted from June 25 to June 26, 1990.

2. LOCATION AND ACCESS

The Takom property is located approximately 10 kilometers southeast of Horsefly, which in turn is 50 kilometers northeast of Williams Lake, south central British Columbia (Figures 1 and 2).

3. PHYSIOGRAPHIC SETTING

Local topographic relief is subdued. Elevations range from 945 meters to 1128 meters above sea level.

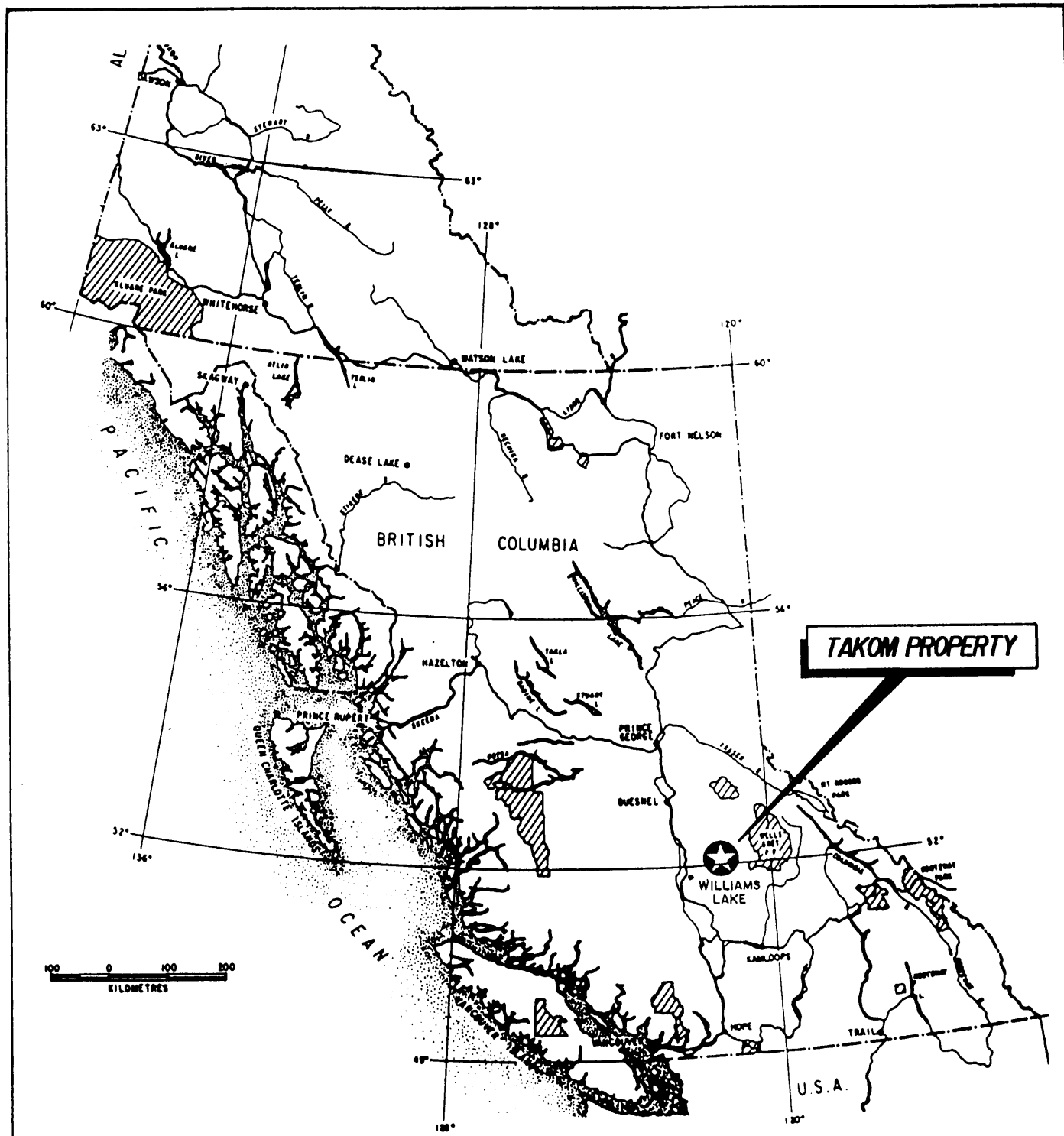
Forest cover is typical of the interior dry belt, with abundant Douglas fir and Lodgepole pine. Numerous small lakes and swampy areas are scattered throughout the property. Some areas have been clear-cut logged.

4. PROPERTY STATUS AND OWNERSHIP

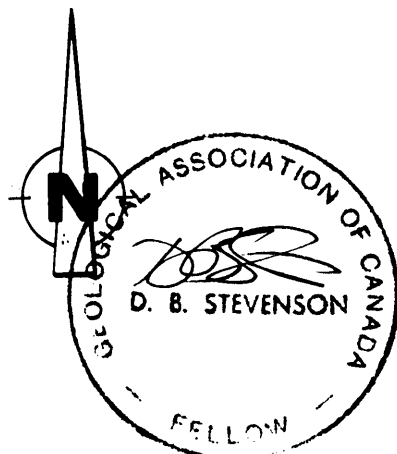
The Takom property consists of 2 mineral claims totalling 40 units and are situated in the Cariboo Mining Divisions. The claim group can be found on NTS map sheet 93A/3W. Auspex Gold Ltd has a 100% ownership in both the claims (Figure 3).

5. HISTORY AND PREVIOUS WORK

Although the general region around the Horsefly-Takom area has a long placer mining history and many copper showings have been known for many decades, the Takom property was not explored until 1973 when Exploram Minerals Ltd. conducted IP, mag and geochemical surveys over the Takom area and Megabuck



100 0 100 200
KILOMETRES



CYPRUS GOLD
(Canada) Ltd.

TAKOM MINERAL PROPERTY
REGIONAL LOCATION MAP

CARIBOO MINING DISTRICT, B.C.

SCALE: Noted	DATE: APRIL 91	MAP: 1	N.T.S. 93A/3W,6W
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121°22'30"

Horsefly



Horsefly River

Moffat Creek

Corner Lake

Mussey Creek

Starlike Lake

Mica Lake

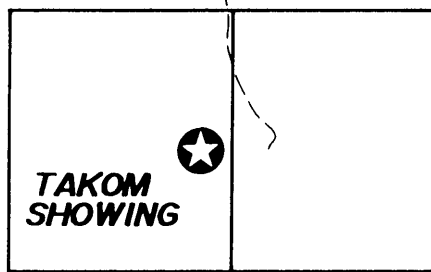


MEGABUCK SHOWING

52°15'

Creek


Woodjam



TAKOM SHOWING

0 2.0 4.0Km



 CYPRUS GOLD (Canada) Ltd.	
TAKOM PROPERTY PROPERTY LOCATION MAP CARIBOO MINING DISTRICT, B.C.	
DRAWN D.S.	SCALE NOTED
DATE APRIL 91	FIG. No. 2

NTS: 93A/3W,6W

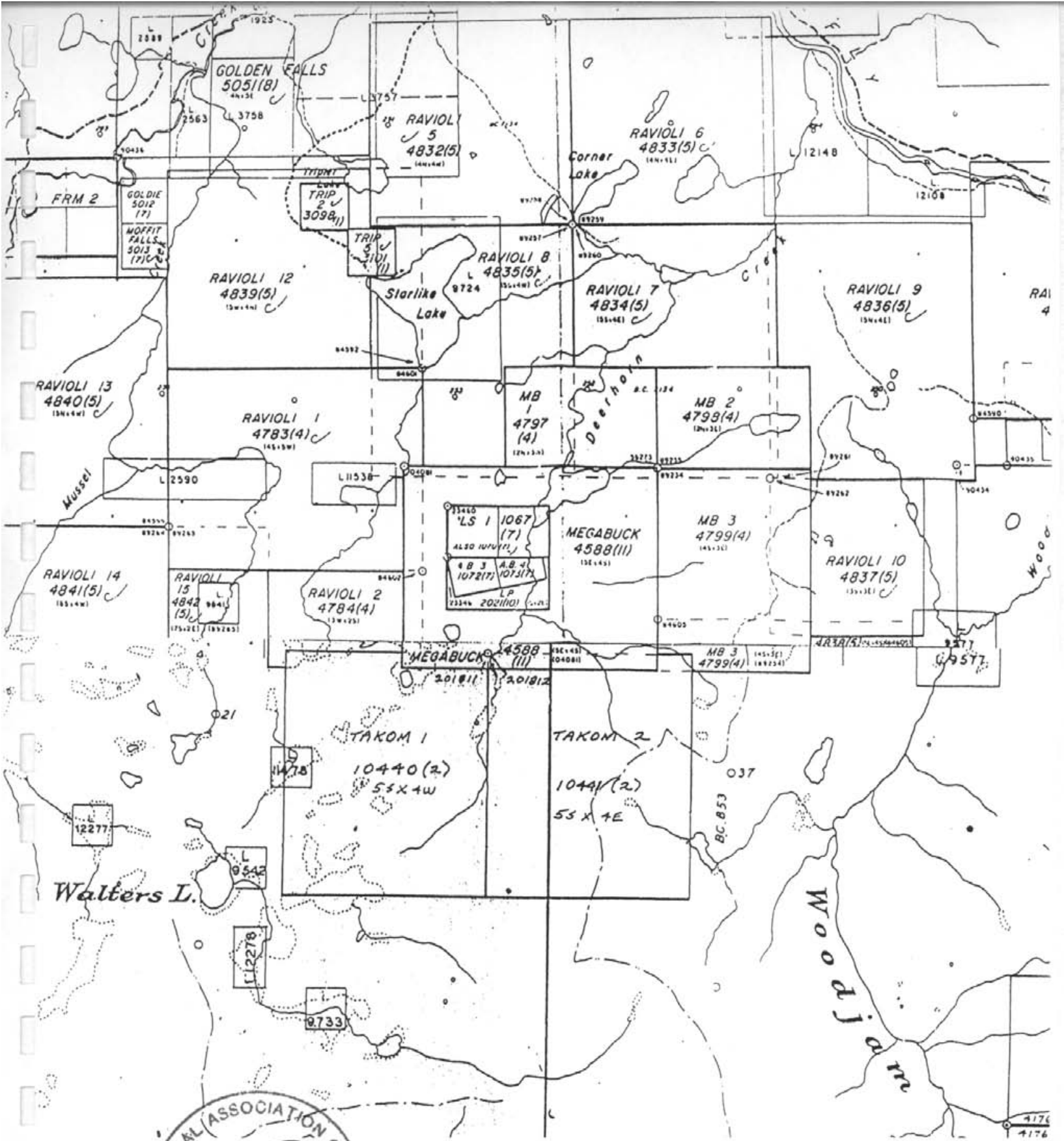


Figure 3
Claim Map

showing which is located 1.5 kilometers to the north. Exploram subsequently drill tested both the Takom and Megabuck showings. Two holes totalling 404 meters were completed on the Megabuck showing and three holes totalling 499 meters on the Takom showing. In 1977 Exploram completed one additional diamond drill hole totalling 153 meters on the Takom zone. The best intercept encountered in diamond drilling was from hole 74-03 where 10.7 meters averaged 0.037 oz/t gold and 0.13% copper. Due to poor grid placement, because of local magnetics, only part of the Takom showing was surveyed with IP and mag.

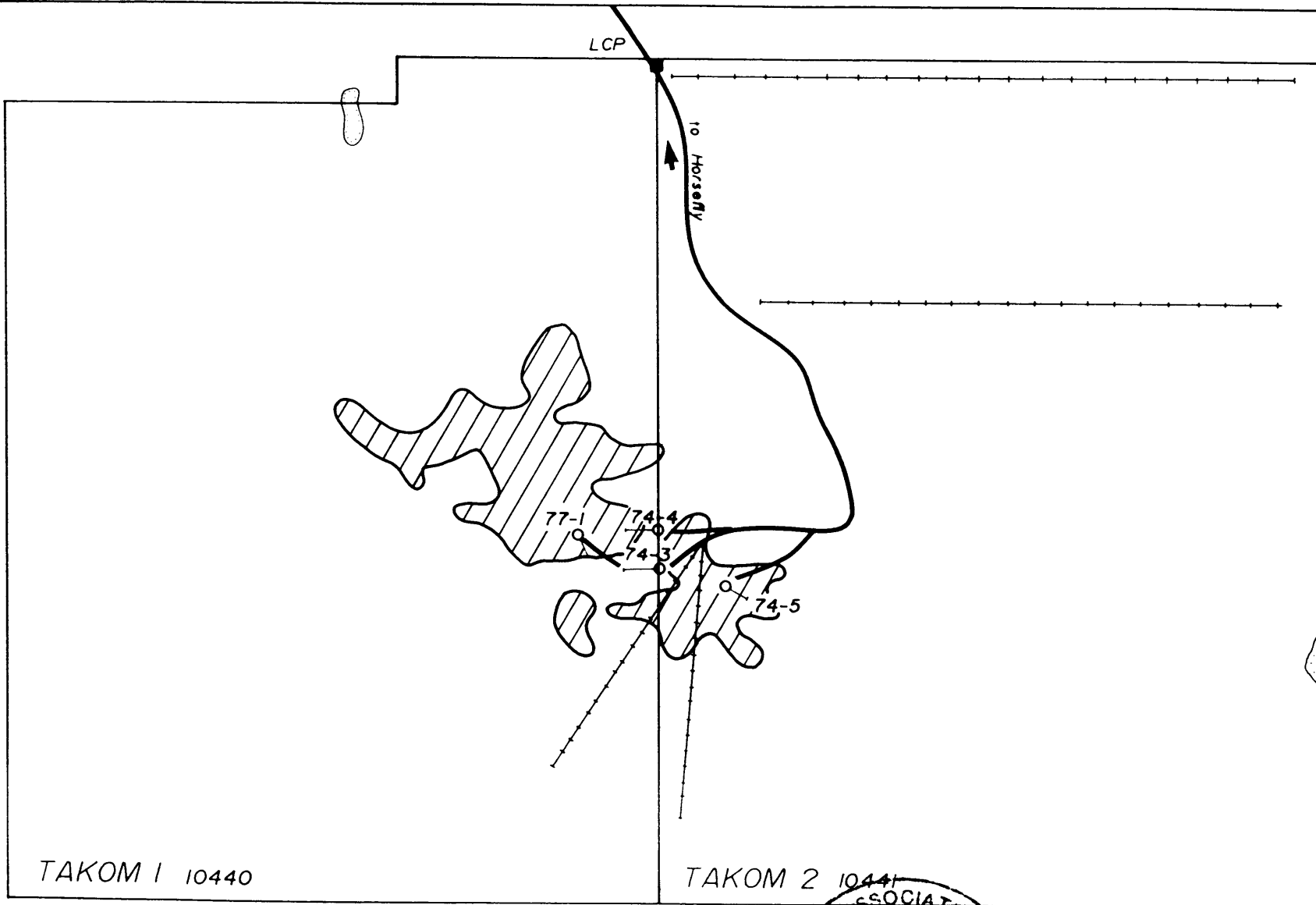
Between 1979 and 1983 the Takom-Megabuck showings, and much of the surrounding area, was staked by various parties. During 1983-1984 Placer Development took an option on the Megabuck showing and conducted geological, geophysical and geochemical surveys including 1266 meters of diamond drilling in 17 holes. Placer outlined a pipe-like body at the Megabuck showing containing approximately 6.5 Mt averaging 0.025 oz/t gold and 0.13% copper.

Concurrently with Placer's activities in 1983-1984 Archer-Cathro and Associates (1981) Limited completely staked the perimeter of Placer's claims and proceeded with grid mapping and soil sampling. These claims incorporated the present day Takom claims.

Early in 1984 Rockridge Mining Corporation acquired control of the claims covering both the Megabuck and Takom showing. They retained Archer-Cathro to complete soil and rock sampling programs including examination and sampling of diamond drill core from both properties (Figures 4 and 5). During late 1986, 692 linear meters of backhoe trenching was conducted at the Megabuck and Takom showings. In this program some 624 linear meters of bedrock was exposed and sampled in detail for gold. The best gold value encountered in trenching was 0.028 oz/t over 2 meters.

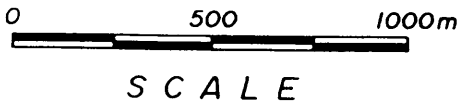
6. REGIONAL GEOLOGY

The Takom property lies within the Quesnel Trough, which hosts a series of




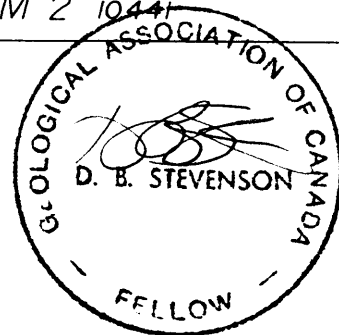
TAKOM 1 10440


TAKOM 2 10441

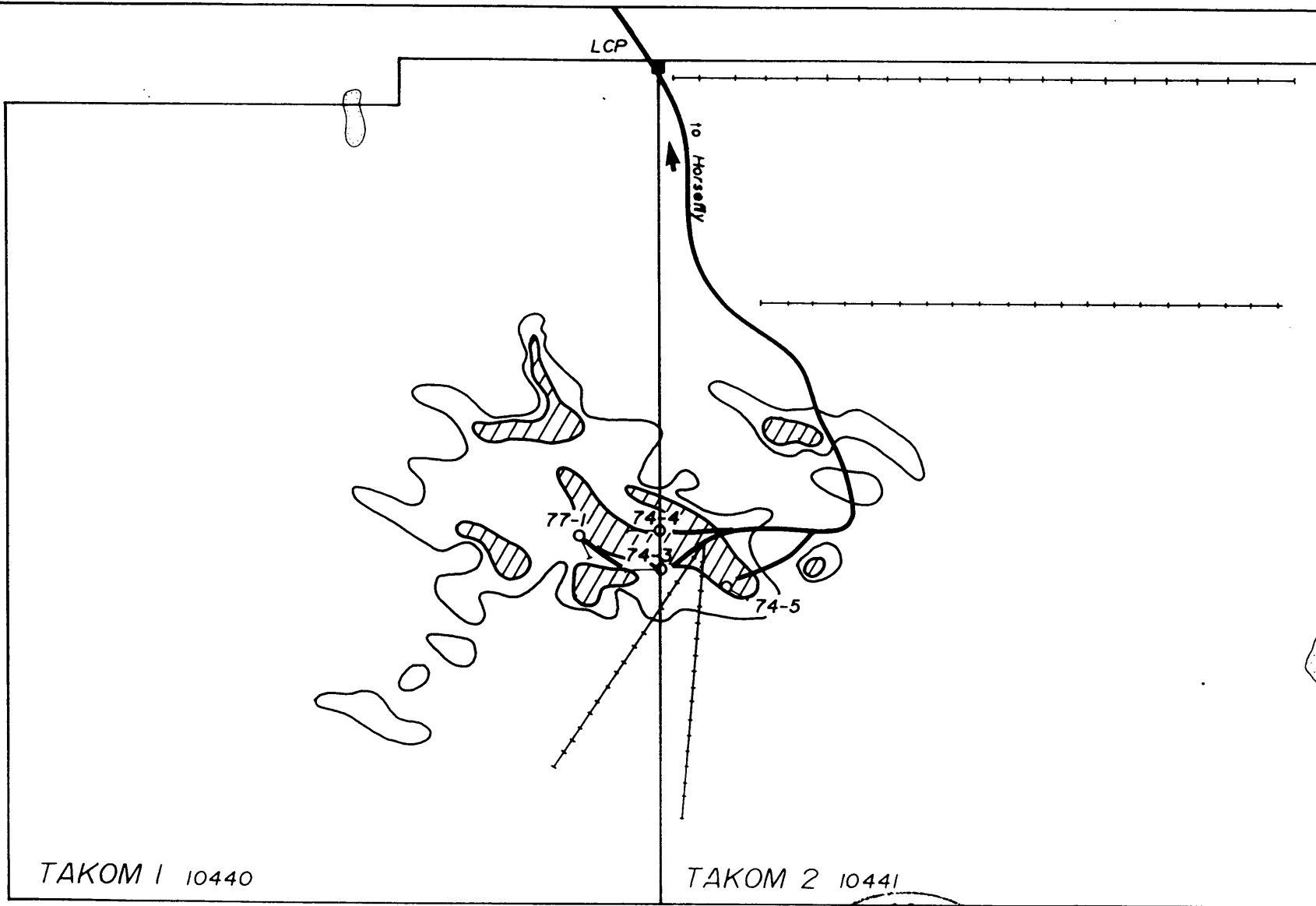


LEGEND

 ≥ 5 ppb Au

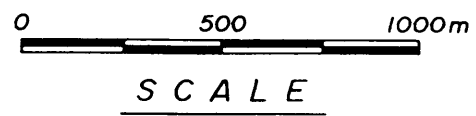


 CYPRUS GOLD (Canada) Ltd.	
TAKOM PROPERTY Au (ppb) in Soils SURVEY BY ROCKRIDGE MINING (1984)	
DRAWN D. S. DATE APRIL 91	SCALE NOTED FIG. No. 4





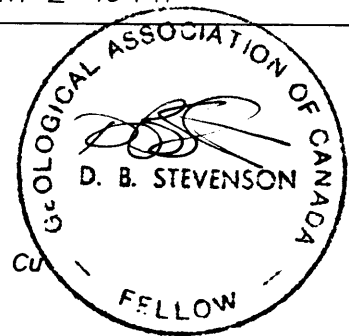
TAKOM 1 10440


TAKOM 2 10441



LEGEND

	≥ 100 ppm Cu
	≥ 40- 99 ppm Cu



 CYPRUS GOLD (Canada) Ltd.	
TAKOM PROPERTY Cu (ppm) in Soils SURVEY BY ROCKRIDGE MINING (1984)	
DRAWN D. S.	SCALE NOTED
DATE APRIL 91	FIG. No. 5

mid-Mesozoic volcanic islands characterized by generally alkalic to sub-alkalic basalts and andesites, related sub-volcanic intrusive rocks and derived clastic and pyroclastic sedimentary rocks (Figures 6 and 7). This assemblage hosts numerous deposits of porphyry copper-gold mineralization generally related to dioritic or monzonitic sub-volcanic intrusive bodies.

These porphyry deposits, which are characteristically molybdenum poor, are chemically and regionally distinct from the calc-alkalic copper-molybdenum porphyries of similar age which tend to appear westward of the alkalic porphyries; examples are the Highland Valley district west of Afton, Gibraltar west of Cariboo-Bell, and Schaft Creek west of the eastern Stikine area deposits.

7. PROPERTY GEOLOGY

Property geology consists of a complex succession of alkalic to sub-alkalic flows and related volcanoclastic rocks which form the southern extension of the Triassic-Jurassic Takla Group. These rocks are intruded by the Jurassic calc-alkaline Takomkane batholith and related intrusions in the southeast end of the property. These rocks are then overlain by a sequence of Tertiary plateau basalts.

Mineralization consist of chalcopyrite, pyrite, magnetite and minor specular hematite. These form as disseminations, fracture fillings, and in quartz veinlets up to 1 centimeter in width. Statistical analysis of the drill assay results coupled with late stage quartz and quartz-carbonate veining, led to the hypothesis of an epithermal gold system superimposed on the original porphyry copper-gold system. This late stage veining is weakly anomalous in gold (53 ppb) but strongly anomalous in Ag, Cu, As, Hg and antimony (Peatfield, 1986).

Potassic feldspar flooding, chloritization, epidotization, carbonatization and the development of magnetite and hematite are commonly observed alteration features.

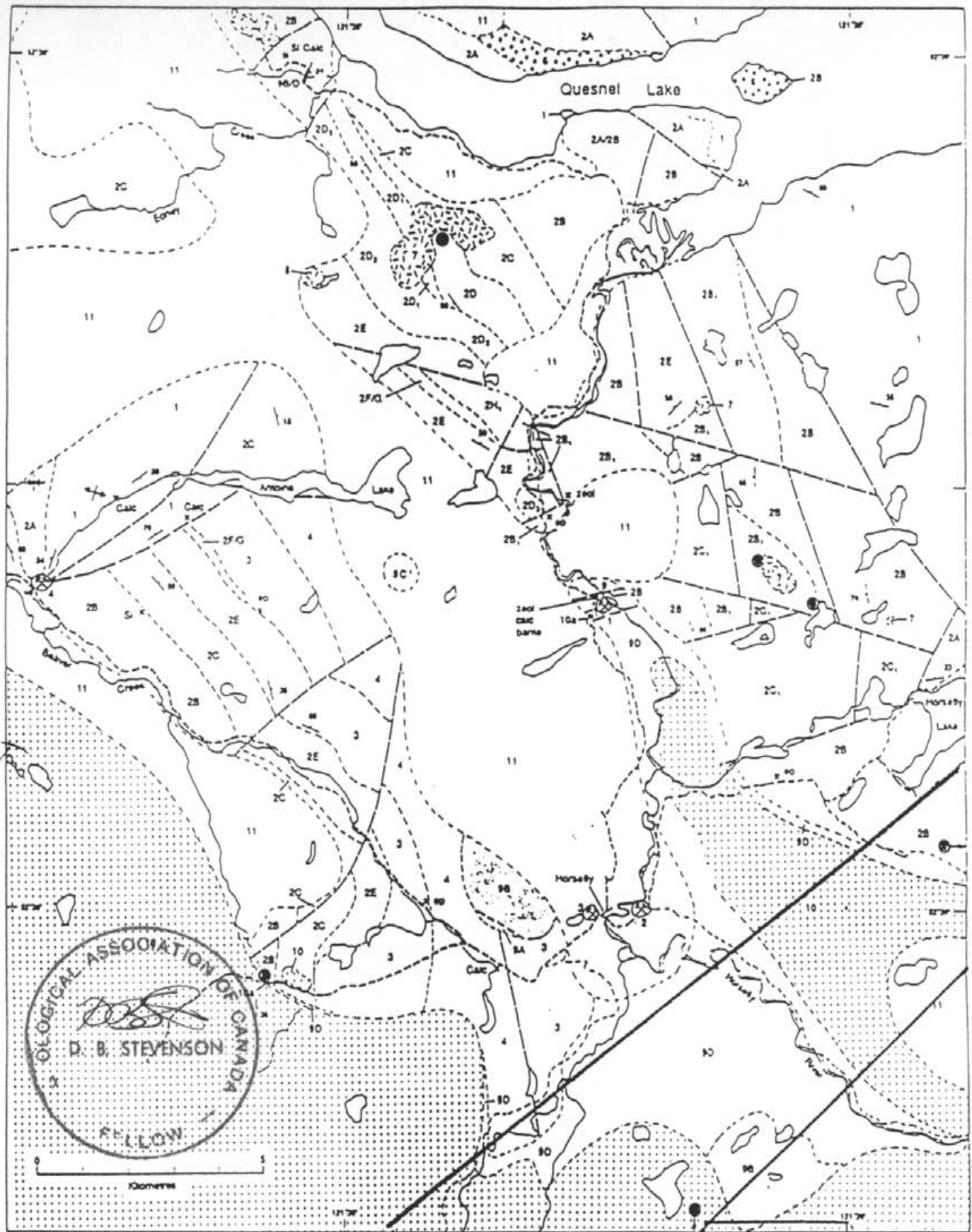


Figure 6
Regional Geology

Geology of the central Quesnel terrane between Horsefly and Quesnel lakes.

PROMINENT AEROMAGNETIC LINEARS

★ MEGABUCK

B.C. Geological Survey Branch
Geological Fieldwork 1987, Paper 1988-1

★ TAKOM

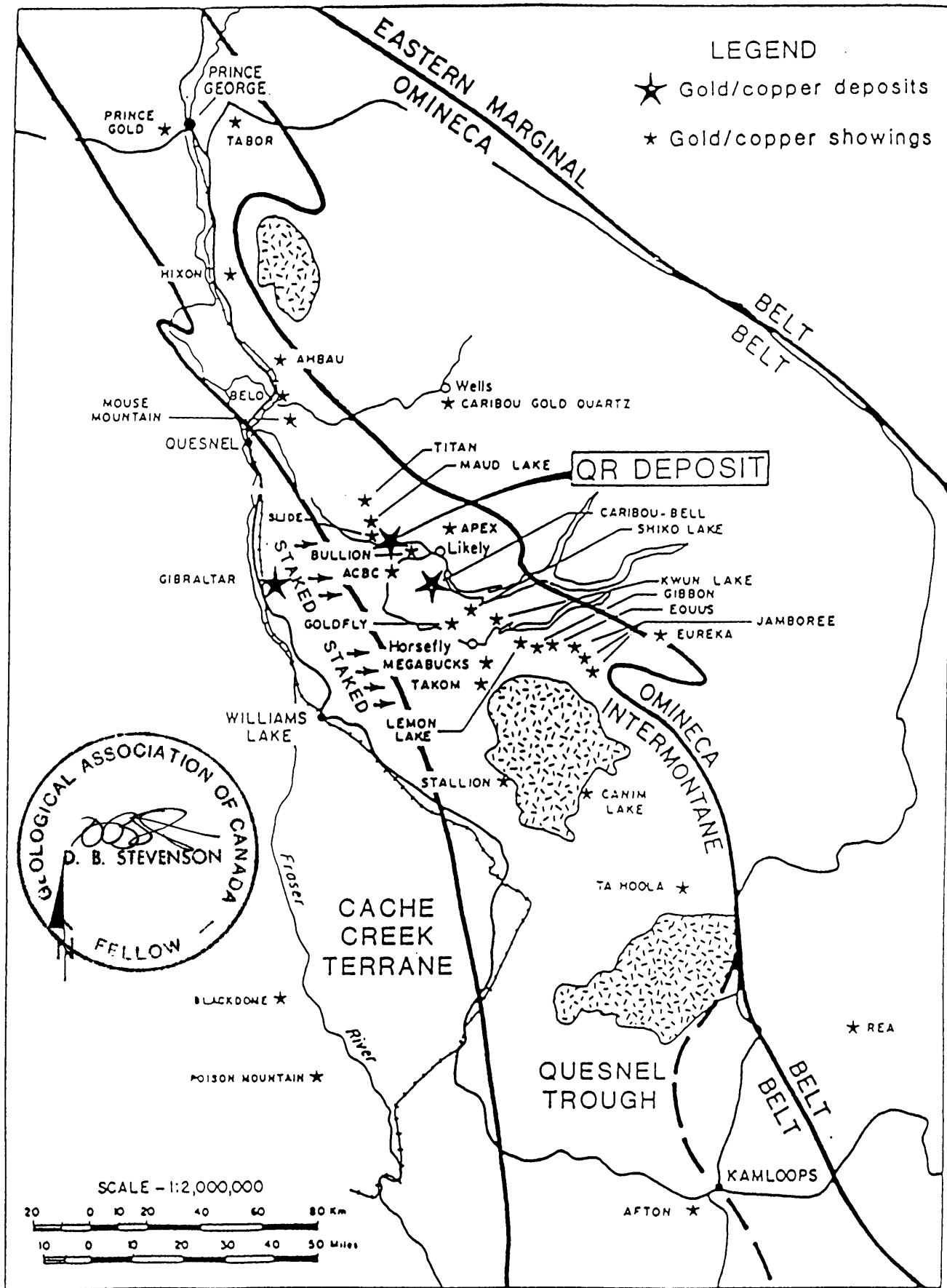


Figure 7
 Regional Mineral Occurrences

8. 1990 EXPLORATION PROGRAM

Two days were spent evaluating the potential for alkalic porphyry Au-Cu mineralization on the Takom property. This work consisted of four lines from which 70 - B horizon soil samples were collected and analysed for gold and copper.

Two of the four lines were put in to cover, in part, a mag high feature in the northeast corner of the grid. These lines were 2 kilometers in length. Soils were collected every 100 meters. Two lines were also put in over the Takom showing in part to confirm the Cu-Au anomaly identified by Rockridge Mining Corporation in 1984. These lines which were 800 meters in length, also tested part of a large mag high located on the edge of the Cu-Au soil anomaly. These soils were collected every 50 meters.

All lines were geologically mapped. Three rocks were collected from the Takom showing area and two from the Takom drill core.

In addition to the geological mapping and soil sampling the four drill holes put into the Takom showing were examined. Selected sections of the core were analysed for gold and copper.

All samples were sent to Min-En Laboratories, 705 West 15th Street, North Vancouver, B.C. and analysed for Au and Cu by wet geochemistry. Preparation and analytical procedures can be found in Appendix 2.

Soil sample holes were dug with a pick or shovel, averaging approximately 40 cm in depth. A composite sample from the "B" horizon was collected and placed in a 10 centimeter by 25 centimeter Kraft paper envelope. A sample number was marked on the envelope and a brief soil description was noted. All lines were put in by chain and compass starting from a point along the access road.

9. RESULTS

Soil Survey

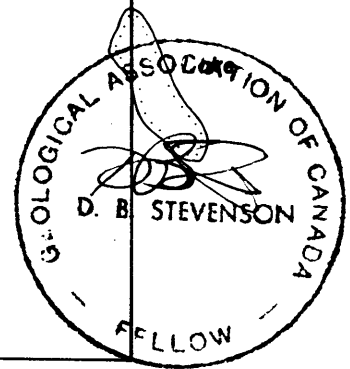
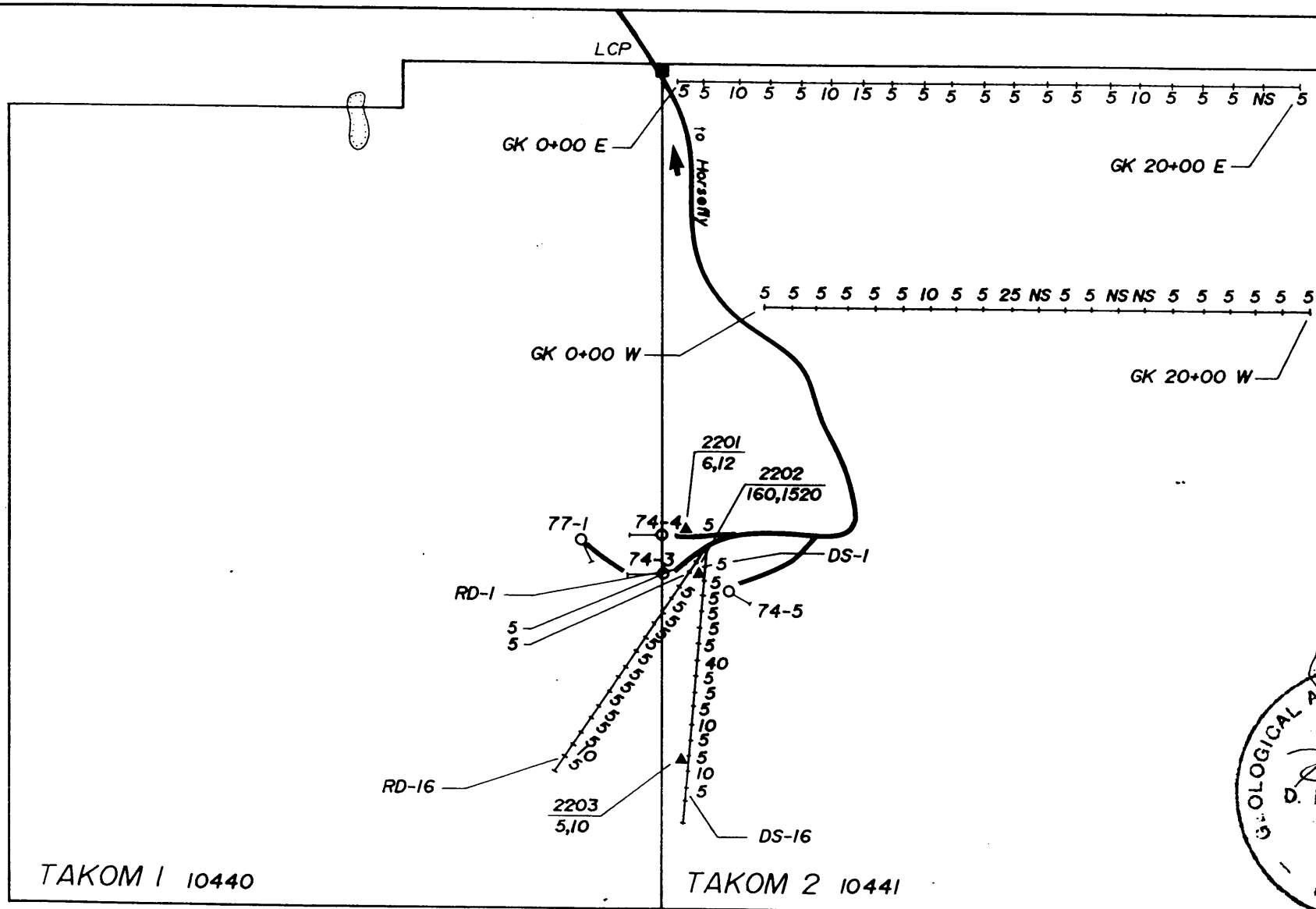
Both sets of soil lines returned disappointing gold and copper values. Gold reached a maximum of 40 ppb on one of the lines covering the Takom showing. A copper anomaly was detected over the Takom showing which confirmed previous work conducted by Rockridge Mining. Values of 158 ppm Cu were encountered in this area. The continuation of the lines over the magnetic feature failed to indicate any anomalous values (Figures 8, 9 and 10).

On the two lines located in the northeast corner of the property a maximum of 25 ppb gold was encountered while most copper values were less than 98 ppm. A spot high of 330 ppm copper was detected however.

Geological Mapping

Due to extensive overburden cover very little outcrop or float material was observed. The only rock observed was located towards the end of the eastern line put in over the Takom showing. In this area a small EW trending ridge of coarse grained biotitic granodiorite outcrops. This intrusive is likely part of the Takomkane Batholith. The granodiorite was noted to contain abundant disseminated magnetite which would indicate this intrusive to be the source of the mag high feature in this area. This intrusive was sampled but returned a value of only 5 ppb gold and 10 ppm copper.

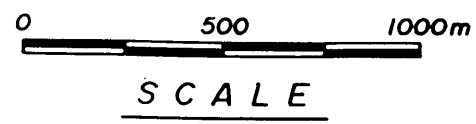
Two samples were collected from outcrop exposed in the road located near hole 74-3. These samples ran 5 ppb Au, 12 ppm Cu and 160 ppb Au, 1520 ppm copper. The latter sample was of a strongly potassic andesitic volcanic with minor to moderate disseminated chalcopyrite and pyrite. The former sample is of a less altered version of the volcanic.


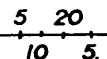



TAKOM 1 10440

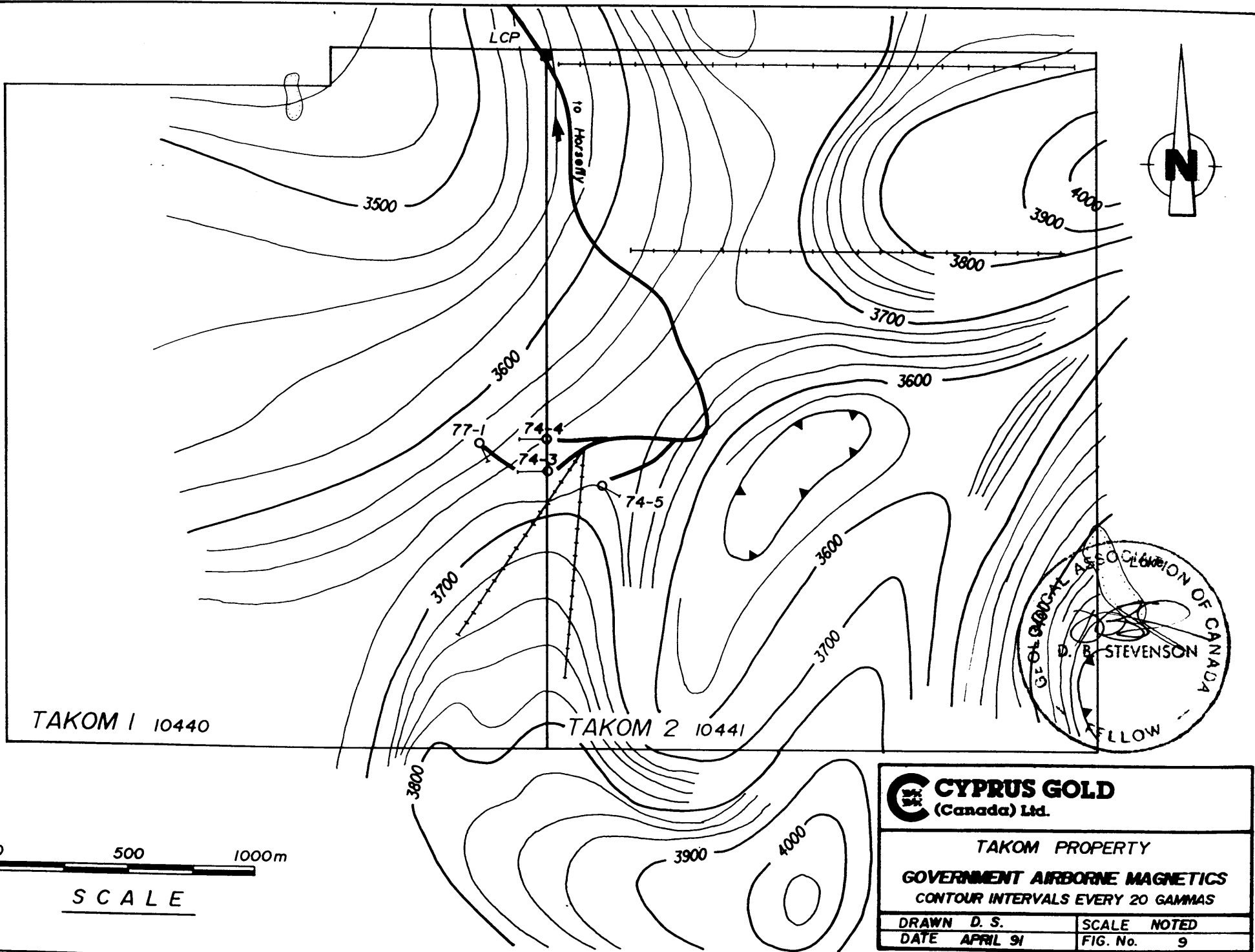
TAKOM 2 10441

LEGEND



- 
 2901
 15,119
 ROCK SAMPLE - Au (ppb), Cu (ppm)
- 
 5 20
 10 5
 SOIL SAMPLE - Au (ppb)

 CYPBUS GOLD (Canada) Ltd.	
TAKOM PROPERTY ROCK & GOLD SOIL RESULTS	
DRAWN D. S. DATE APRIL 91	SCALE NOTED FIG. No. 8

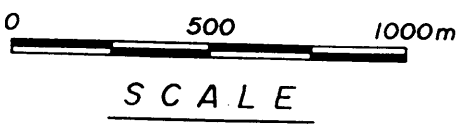
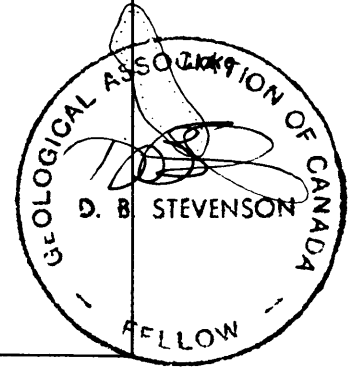
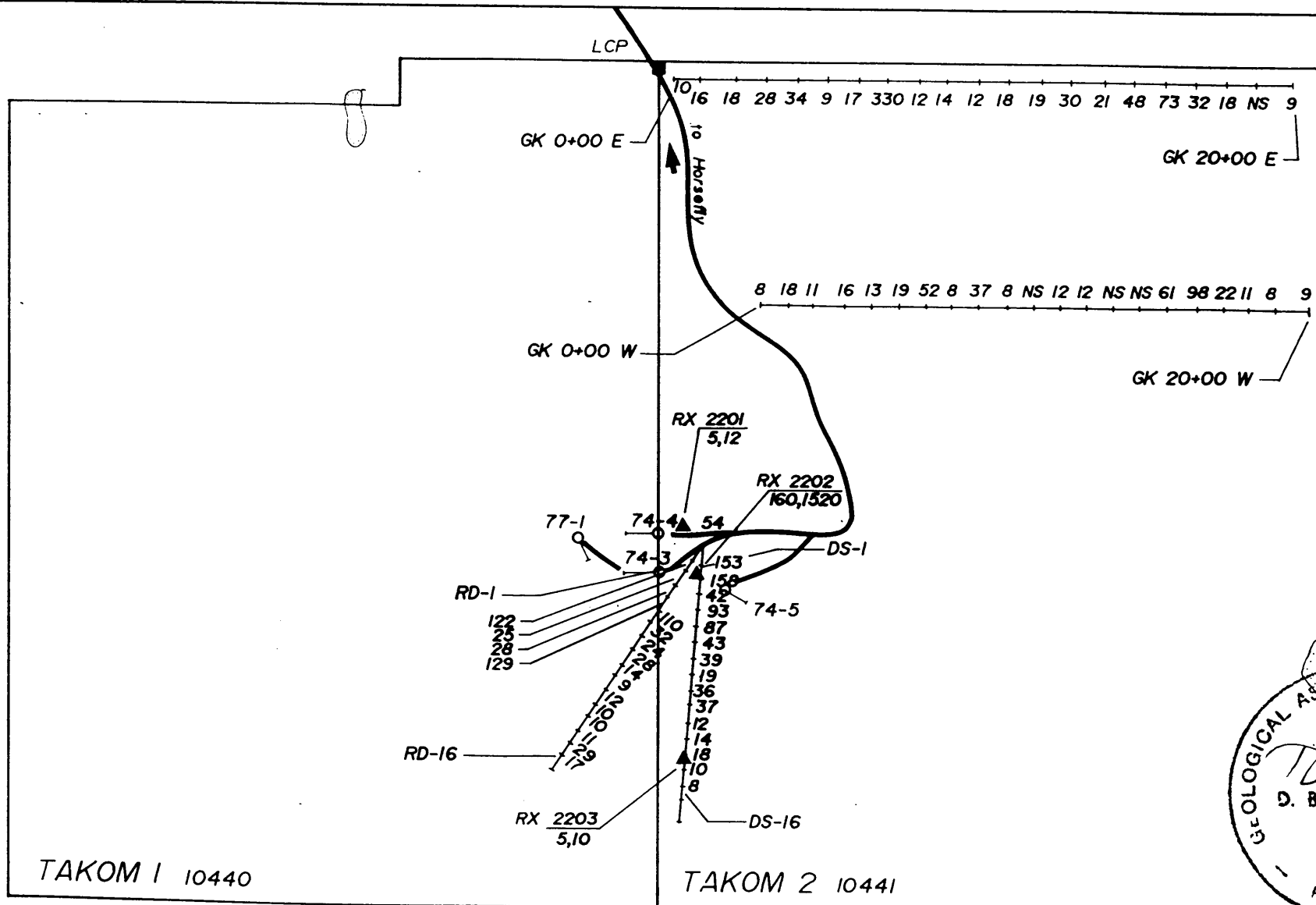


CYPRUS GOLD
(Canada) Ltd.

TAKOM PROPERTY

GOVERNMENT AIRBORNE MAGNETICS
CONTOUR INTERVALS EVERY 20 GAMMAS

DRAWN D. S.	SCALE NOTED
DATE APRIL 91	FIG. No. 9



L E G E N D

- RX 2901
 15,119 ROCK SAMPLE- Au (ppb), Cu (ppm)
- 5 60
 30 20 SOIL SAMPLE- Cu (ppm)

CYPRUS GOLD
(Canada) Ltd.

TAKOM PROPERTY

ROCK & COPPER SOIL RESULTS

DRAWN D. S.	SCALE NOTED
DATE APRIL 91	FIG. No. 10

Core from holes previously drilled on the Takom showing was examined. Unfortunately the best intercept encountered from this area which was in hole 74-3 (10.7 meters averaging 0.037 oz/t gold and 0.13% copper), was missing. Many of the other holes also had large sections missing. From what could be pieced together holes 74-3, 74-4 and 77-1 intersected primarily mafic volcanoclastics which were intruded by wide sections of granodiorite. Propylitic alteration was the dominant alteration feature with local areas of potassic alteration. Fine grained disseminated and fracture-filling chalcopyrite and pyrite was observed locally. In general all holes were not well mineralized. Hole 74-5 was dominated by coarse grained propylitically altered granodiorite with lesser sections of mafic volcanoclastics.

Two samples were collected from hole 74-5. Although no gold was detected both samples were slightly anomalous in copper. One sample ran 675 ppm and the other 430 ppm.

REFERENCES

Archer, Cathro and Associates (1981) Ltd. (1988) Megabuck Property, Horsefly, B.C. Internal Report.

Peatfield, G.R. (1986) Megabuck Mineral Property. Internal Report for Big Rock Gold Ltd.

APPENDIX 1
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, David B. Stevenson, of the Municipality of North Vancouver in the Province of British Columbia, certify as follows regarding the report on the Takom Property, Cariboo Mining Division, British Columbia.

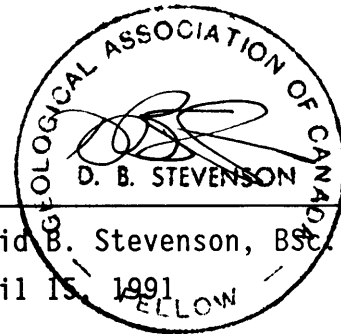
I am a graduate of the University of New Brunswick, Fredericton, New Brunswick with a Bachelor of Science, Honours in Geology, 1981.

I have practised geology in Canada and Norway since 1981.

I am employed by Cyprus Gold (Canada) Ltd., 1810-1055 West Hastings Street, Vancouver, B.C. V6E 2E9.

I supervised and coordinated exploration activities on or adjacent to the Takom Property.

I am a Fellow of the Geological Association of Canada.



David B. Stevenson, BSc. FGAC
April 15, 1991

APPENDIX 2

GEOCHEMICAL PREPARATION AND ANALYTICAL PROCEDURES



**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PRECEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR WET GOLD GEOCHEMICAL ANALYSIS

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

5.00 grams of sample is weighed into porcelain crucibles and cindered @ 800 C for 3 hours. Samples are then transferred to beakers and digested using aqua regia, diluted to volume and mixed.

Further oxidation and treatment of 75% of the above solution is then extracted for gold by Methyl Iso-butyl Ketone.

The MIBK solutions are analyzed on an atomic absorption spectrometer using a suitable standard set.



**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR AG, CU, PB, ZN, NI, CO OR CD GEOCHEM

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analysed on atomic absorption spectrometers using the appropriate standard sets. A background correction can be applied to Ag, Pb, and Cd if requested.

OFFICE AND LABORATORIES:
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TELEX: VIA USA 7601067
FAX: (604) 980-9621

APPENDIX 3
ANALYTICAL RESULTS FOR ROCKS



**MIN
• EN
LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0798-RG1

Company: **CYPRUS GOLD CANADA**
Project:
Attn: **R. DURFELD**

Date: **JUL-06-90**
Copy 1. **CYPRUS GOLD CANADA, VANCOUVER, B.C.**
2. **R. DURFELD, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted JUL-03-90 by DUFELD GEOLOGICAL.

Sample Number	AU-WET PPB	CU PPM
02201	5	12
02202	160	1520
02203	5	10
02204	10	675
02205	15	430

APPENDIX 4
ANALYTICAL RESULTS FOR SOILS



MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

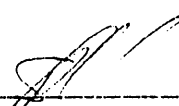
Geochemical Analysis Certificate 0V-0798-SG1

Company: **CYPRUS GOLD CANADA**
Project:
Attn: **R. DURFELD**

Date: **JUL-07-90**
Copy 1. **CYPRUS GOLD CANADA, VANCOUVER, B.C.**
2. **R. DURFELD, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted JUL-03-90 by DUFELD GEOLOGICAL.

Sample Number	AU-WET PPB	CU PPM
RD-1	5	122
RD-2	5	25
RD-3	5	28
RD-4	5	129
RD-5	5	110
RD-6	5	32
RD-7	5	24
RD-8	5	28
RD-9	5	14
RD-10	5	9
RD-11	5	12
RD-12	5	10
RD-13	5	10
RD-14	5	11
RD-15	10	29
RD-16	5	17
DS-1	5	54
DS-2	5	153
DS-3	5	158
DS-4	5	42
DS-5	5	93
DS-6	5	87
DS-7	5	43
DS-8	40	39
DS-9	5	19
DS-10	5	36
DS-11	5	37
DS-12	10	12
DS-13	5	14
DS-14	5	13

Certified by 

MIN-EN LABORATORIES



MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
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33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

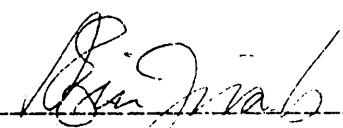
0V-0798-SG2

Company: **CYPRUS GOLD CANADA**
Project:
Attn: **R. DURFELD**

Date: **JUL-06-90**
Copy 1. **CYPRUS GOLD CANADA, VANCOUVER, B.C.**
2. **R. DURFELD, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted JUL-03-90 by DUFELD GEOLOGICAL.

Sample Number	ALU-WET PPB	CU PPM
DS-15	10	10
DS-16	5	9
GK 0+00W	5	8
GK 1+00W	5	18
GK 2+00W	5	11
GK 3+00W	5	16
GK 4+00W	5	13
GK 5+00W	5	19
GK 6+00W	10	52
GK 7+00W	5	8
GK 8+00W	5	37
GK 9+00W	25	8
GK 11+00W	5	12
GK 12+00W	5	12
GK 15+00W	5	61
GK 16+00W	5	98
GK 17+00W	5	22
GK 18+00W	5	11
GK 19+00W	5	8
GK 20+00W	5	9
GK 0+00E	5	10
GK 1+00E	5	16
GK 2+00E	10	18
GK 3+00E	5	28
GK 4+00E	5	34
GK 5+00E	10	9
GK 6+00E	15	17
GK 7+00E	5	330
GK 8+00E	5	12
GK 9+00E	5	14

Certified by 
MIN-EN LABORATORIES



**MIN
• EN
LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0798-SG3

Company: CYPRUS GOLD CANADA
Project:
Attn: R. DURFELD

Date: JUL-06-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.
2. R. DURFELD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted JUL-03-90 by DUFELD GEOLOGICAL.

Sample Number	AU-WET PPB	CU PPM
GK 10+00E	5	12
GK 11+00E	5	18
GK 12+00E	5	19
GK 13+00E	5	30
GK 14+00E	5	21
GK 15+00E	10	48
GK 16+00E	5	73
GK 17+00E	5	32
GK 18+00E	5	18
GK 20+00E	5	9

APPENDIX 5
STATEMENT OF COSTS

Statement of Costs

Cyprus Gold (Canada) Ltd.

Takom Property

June 25 to 26, 1990

Salaries

Chris Durfeld	Prospector	\$200 x 2	=	400.00
Grant Klyne	Prospector	\$250 x 1	=	250.00
Rudi Durfeld	Geologist	\$350 x 1	=	350.00
David B. Stevenson	Project Geologist	\$350 x 2	=	<u>700.00</u>
		Total Salaries		1,700.00

Transportation

2 days x 1 vechile x \$50/day	100.00
Air Travel - Vancouver-Williams Lake-Vancouver (\$375 X 20%)	75.00

Hotel - Travel Expenses 300.00

Field Supplies and Equipment Rental 50.00

Geochemistry

5 Rock Samples	- Au wet	\$4.75/sample	23.75
	- Cu	\$2.50/sample	12.50
	- Sample prep	\$3.75/sample	18.75
70 Soil Samples	- Au wet	\$4.75/sample	332.50
	- Cu	\$2.50/sample	175.00
	- Sample prep	\$1.25/sample	<u>87.50</u>
			650.00

Report Compilation and Drafting (5 days x \$350/day) 525.00

Total Project Cost \$3,400.00

