A GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE TEN PROPERTY GERMANSEN LANDING AREA CENTRAL BRITISH COLUMBIA, B.C. NTS 94C/3,4

OMINECA MINING DIVISION

LATITUDE 56°07'N
LONGITUDE 125°30'W

CYPRUS GOLD (CANADA) LTD.
1810-1055 West Hastings Street,
Vancouver, B.C. V6E 2E9

by
David B. Stevenson
Cyprus Gold (Canada) Ltd.

June 6, 1991

SUMMARY AND CONCLUSIONS

The Ten property, which is located in the vicinity of the Duckling Creek Syenite - Hogem Batholith area, was investigated for alkalic porphyry type Au-Cu mineralization between August 5 and August 17, 1990. The property was surveyed by reconnaissance-style geological mapping, soil-rock sampling and proton mag surveying.

No significant gold values in soil or rock were encountered on the Ten property. However, the property does host several broad moderate to strong copper anomalies which are associated with strong potassically altered syenites which may warrant follow-up as a porphyry copper target. Some of these anomalies can be traced for greater than 1400 meters along strike and up to 400 meters in width. Copper values range from 300 to 600 ppm and reach a high of 1200 ppm.

RECOMMENDATIONS

No further work is recommended for gold exploration on the Ten property. However, the property does host several significant copper soil anomalies which may warrant further investigation for their porphyry copper potential.

TABLE OF CONTENTS

APPENDICES

MAPS

FIGURES

1. INTRODUCTION

The Ten property, which is located in the vicinity of the Duckling Creek Syenite, Germansen Landing area, B.C. was investigated for alkalic porphyry type Au-Cu mineralization during the period August 5 to August 17, 1990. The property was surveyed by reconnaissance-style geological mapping, soil-rock sampling and proton mag surveying.

No significant Au values were encountered on the Ten property, however several moderate to strong widespread Cu soil anomalies were found to be associated with strong potassically altered syenites.

2. LOCATION AND ACCESS

The Ten property is located 70 kilometers northwest of Germansen Landing and 800 kilometers north of Vancouver, British Columbia (Figures 1 and 2). The property can be found on NTS map sheet 94C/3 and C/4.

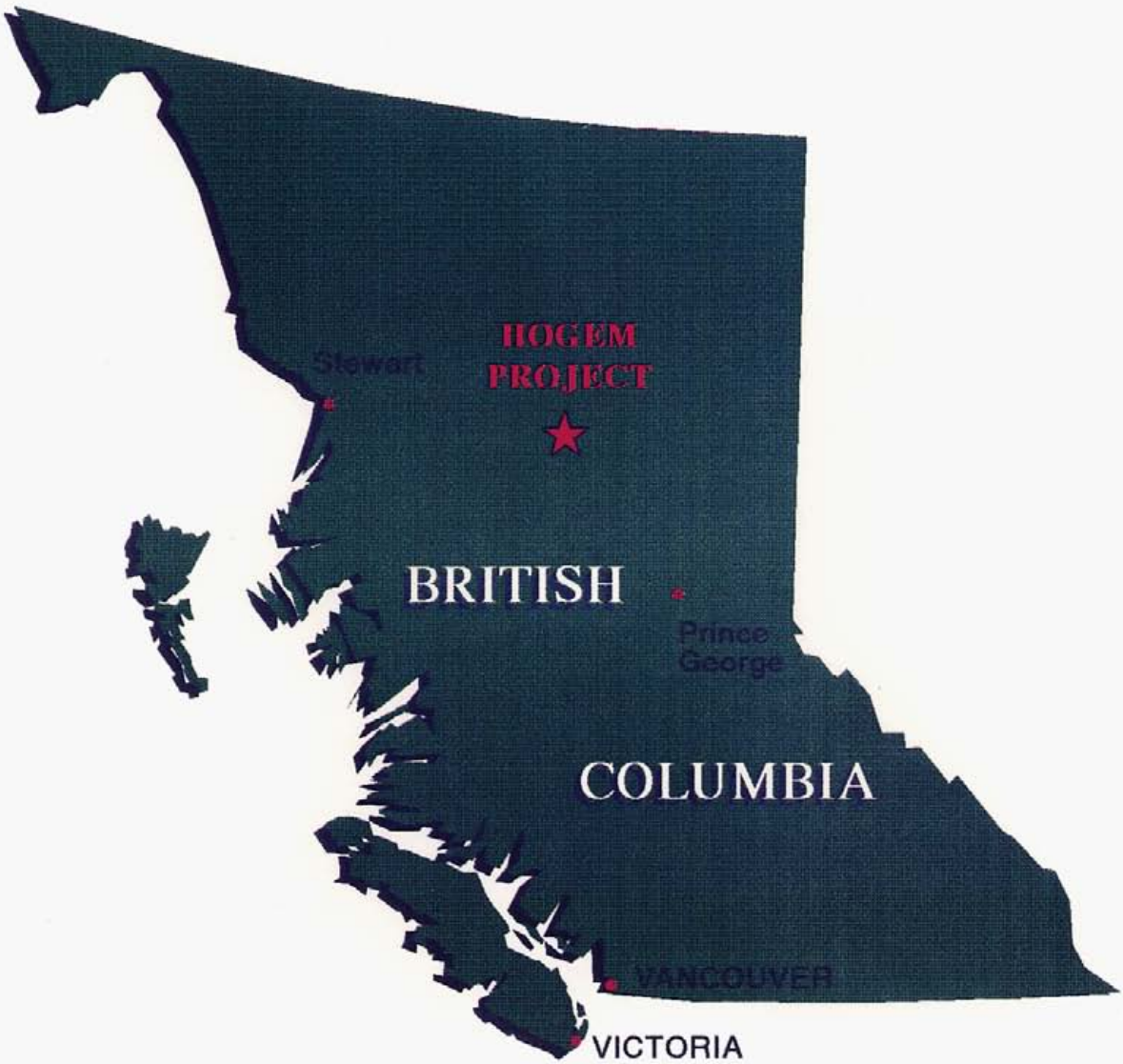
Access is by logging road from either Windy Point or Fort St. James to the Osilinka logging camp a distance of 250 kilometers and 270 kilometers, respectively. From a point near the logging camp a helicopter is then to required to access the property.

3. PHYSIOGRAPHIC SETTING

The Ten property is underlain by steep mountainous terrain. Relief varies from 1400 m to up to 2080 m above sea level. Treeline is generally along the 1600 to 1700 m contour.

Regional drainage direction is eastward towards Williston Lake. Vegetation consists of mature engleman spruce and sub alpine fir some of which is of commercial value. There is active logging being conducted within 10 kilometers of the property.

Figure 1 - Project Location Map



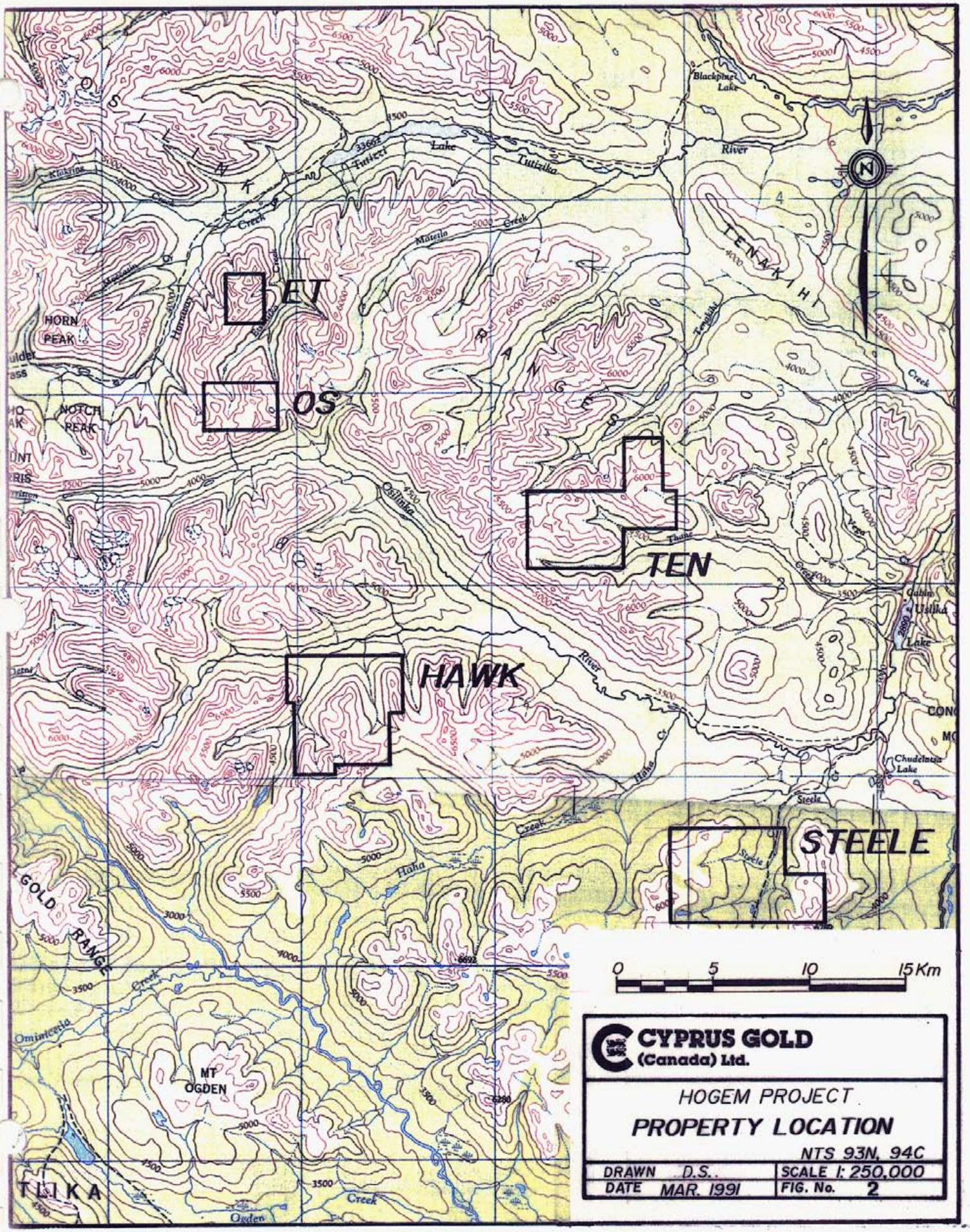
0 100 200 300 400

KILOMETRES

HOGEM PROJECT
REGIONAL LOCATION MAP

CYPRUS GOLD
(Canada) Ltd.

Figure 2 - Property Location Map



CYPRUS GOLD (Canada) Ltd.

HOGEM PROJECT

PROPERTY LOCATION

NTS 93N, 94C

DRAWN D.S.	SCALE 1: 250,000
DATE MAR. 1991	FIG. No. 2

4. PROPERTY STATUS AND OWNERSHIP

Listed below are the six claims comprising the Ten property and some relevant claim information for each.

CLAIM NAME	NO. OF UNITS	RECORD NO.	EXPIRY DATE
Ten 1	20	11779	April 29 1994
Ten 2	20	11780	April 29 1994
Ten 3	20	11781	April 29 1994
Ten 4	20	11782	April 29 1994
Ten 5	20	11783	April 30 1994
Ten 6	20	11784	April 30 1994
	120		

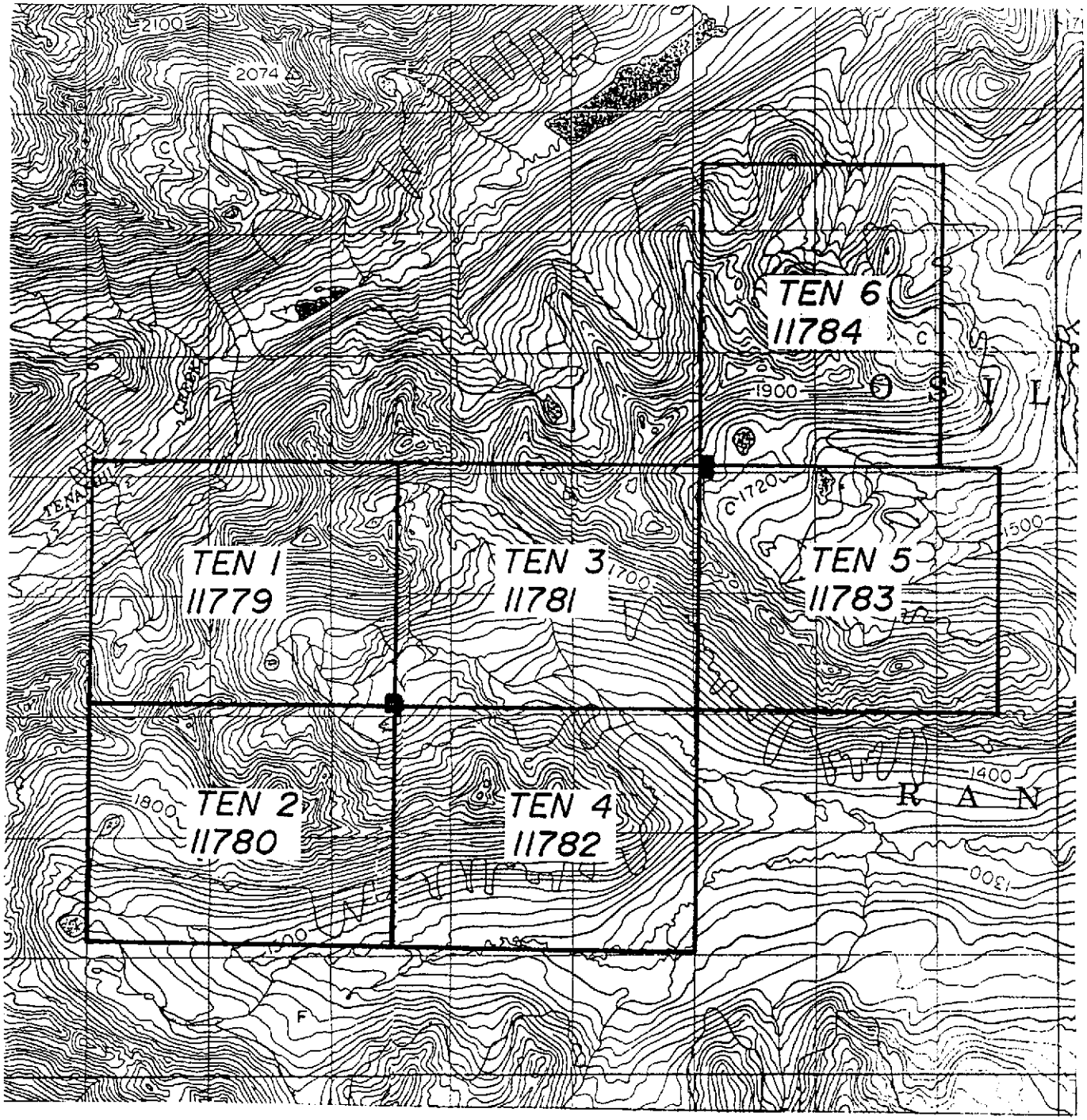
Cyprus Gold (Canada) Ltd, has a 100% undivided interest in the entire claim group (Figure 3).

5. HISTORY AND PREVIOUS WORK

During the summer of 1971 Amoco Canada conducted a reconnaissance stream sediment sampling-mapping program over the Hogem Batholith in search of porphyry Cu-Mo deposits. A total 7376 silts, water, rock, and soil samples were collected from an area of approximately 2400 square kilometers and analyzed for copper and molybdenum. Amoco did not assay for gold in any of these samples. Numerous areas with anomalous Cu and/or Mo in stream sediments were detected. Four areas were staked and worked by Amoco during 1972 to 1974. These areas were known as the Tyger, Needle, Oy and Hawk properties. Property work consisted of reconnaissance and detailed soil sampling and geological mapping.

The latter three properties have recently been in part or entirely restaked by Cyprus and named the Steele, Ten and Hawk properties, respectively.

Figure 3 - Ten Claim Map



HOGEM PROJECT - TEN PROPERTY

CLAIM MAP

NTS 94C/3, C/4

Scale: 1: 50,000

0 1 2 3Km

Several other major and junior mining companies were evaluating the Hogem Batholith for porphyry Cu-Mo during the same period of Amoco's evaluation. Numerous occurrences were located and worked during the 1970's. The majority of the Cu occurrences within the Hogem Batholith were noted to be localized with a particular intrusive phase known as Duckling Creek Syenite. The main bulk of the Duckling Creek Syenite is found in the north end of the Hogem Batholith where it trends northwest and has dimensions of approximately 32 kilometers by 6 kilometers. The main Cu occurrences are known as the Hawk (Amoco), Tam (UMEX), Misty (El Paso), Lorraine (Kennco), Dorothy (Kennco), Rondah (Tyee Lake Resources) and Duckling (Donna Mines). There are numerous smaller intrusions of syenite throughout the Hogem Batholith and adjacent volcanics which may also warrant follow-up for their porphyry Au-Cu potential.

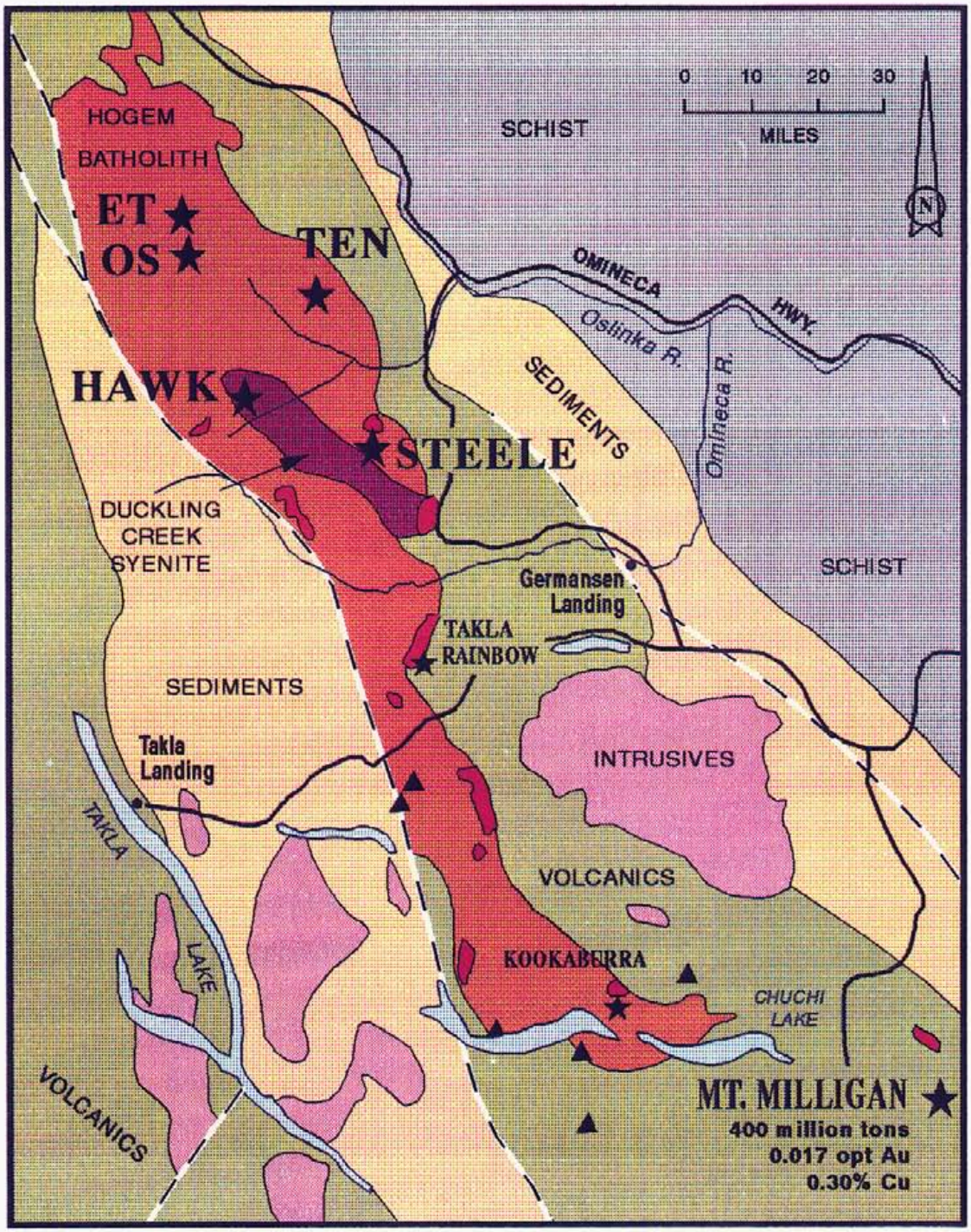
6. REGIONAL GEOLOGICAL SETTING

The Ten property is located within or in the vicinity of the Duckling Creek Syenite (Figure 4). The Duckling Creek Syenite is part of several calc-alkalic and alkalic intrusions comprising the Hogem Batholith. These intrusions are dominated by granites and granodiorites but most importantly by a younger suite of intrusive syenitic bodies. The Hogem Batholith is the largest of the Omineca Intrusions which forms the spine of the island arc related allochthonous Intermontane super terrane in British Columbia. This NW trending elongate batholithic body extends for 120 km from Chuchi Lake in the south to the Misilinka River in the north. It is bordered to the west by the Pinchi Fault and to the east by the Upper Triassic to Lower Jurassic Takla volcanics.

7. 1990 EXPLORATION PROGRAM

A total of 451 soils and 79 rock samples were collected on the Ten property during 1990. Thirty-six kilometers of ground magnetic surveying was also conducted in conjunction with the soil survey.

Figure 4 - Regional Geology Map



Fault

★ Cu Occurrences

▲ Mo Occurrences

Alkalic Suite Intrusives
(Syenite, Syenodiorite, Monzonite)

HOGEM PROJECT

REGIONAL GEOLOGY MAP

CYPRUS GOLD
(Canada) Ltd.

Where possible the "B" horizon of the soil profile was collected utilizing a grubhoe or pick. Average hole depth would be 25 centimeters. A composite sample was then collected and placed in a 10 cm by 25 cm kraft paper envelope. Sample stations were marked on the envelope and their locations were later plotted on a 1:10,000 scale map. In talus material, which was encountered usually above treeline, a composite of the surrounding soil was sieved through a conical metal screen before placed in the kraft envelope. If the terrain permitted, soil sampling was conducted on a 250 m x 75 m grid pattern. However if the terrain was too steep contour sampling was conducted. Spacing between contour lines varied, due to topography, but in most cases did not exceed a 250 m horizontal distance. Sample spacing remained at 75 meters. Grid lines were established by hip chain and compass while contour lines were established using hip chain, compass and an altimeter. All sample stations were appropriately marked and flagged.

All soil and rock samples were analyzed for Au and Cu by wet geochemistry. All analyses were performed at Min-En Labs located in North Vancouver, B.C. Canada. Gold and copper values have been plotted and contoured. Property geological, geochemical and geophysical maps can be found at the back of the report. Reports on analytical procedures are also found at the back of the report.

All grid and contour soil lines were also surveyed with a proton magnetometer. Readings were taken at the same stations as the soil samples. All mag data was corrected for diurnal drift. Two Scintrex MP-2 proton precession magnetometers, one for each crew of three people, were used for the surveys.

7.1 TEN PROPERTY

7.1.1 Ten - Reconnaissance Exploration

7.1.1.1 Ten - Recon Geology

Two areas were investigated on the Ten property. These are known as the Ten Main grid and Ten Northeast grid.

Seven rock types were identified on the Ten property. These include porphyry dykes, leucocratic syenite, mesocratic syenite, monzonite, diorite and mafic volcanics.

The porphyry dykes are very fine grained, massive and light grey to chocolate brown in color. Mineralogically they consist of numerous irregular phenocrysts of orthoclase and plagioclase in a groundmass which is too fine grained to be identified. These dykes are less than 1-2 m thick and tend to occur in small northerly trending swarms.

Leucocratic syenites are fine to coarse grained, massive and light orange-grey to bright orange in color. Compositionally they consist of orthoclase with very minor quartz and less than 20% biotite and hornblende. These rocks at times show local intense potassic alteration as present in the western end of the Ten Main grid. Local minor disseminated pyrite and chalcopyrite does occur and, along with the monzodiorite, are likely the source for the anomalous copper values which rim the cirque on the Ten Main grid and the Ten Northeast grid. No magnetite was observed with these rock types.

Mesocratic syenites are similar to the leucocratic syenites except they are darker in color, which is likely due to the higher mafic content, and do not contain very much sulphide. These rocks also contain minor disseminated magnetite.

The monzonite is a fine to coarse grained light grey rock. Compositionally it consists of minor to moderate biotite and hornblende with equal amounts of orthoclase and plagioclase. Minor disseminated magnetite is present.

The monzodiorite is similar to the monzonites but is coarser grained, light to dark grey and contains a higher percentage of biotite and hornblende. These rocks locally contain minor disseminated and fracture-filling pyrite and chalcopyrite. Minor to moderate epidote, chlorite and limonite alteration is observed throughout. Local very weak potassic alteration is also present. No magnetite to only very minor magnetite was observed with this rock type.

The diorite is a fine to coarse grained rock, dark grey-black in color with abundant biotite and hornblende. Minor chlorite, potassic, epidote and limonite alteration is present. Very minor to disseminated pyrite is present. These rocks contain no to only locally minor disseminated magnetite.

Mafic volcanics which are present only on the Ten Northeast grid are fine grained massive to moderately schistose black-green andesites. These rocks are strongly chloritized with minor to locally abundant disseminated pyrite and magnetite.

On the Ten Main grid the monzodiorite is the dominant rock type. It is intruded by small plugs and dykes of the other intrusive rocks types described in the above. Leucocratic syenites and monzonites are the main rock types seen to intrude the monzodiorite and tend to occur along the western and southern rim of the cirque. A large diorite intrusive was observed in the NE corner of the Ten Main grid. The most impressive alteration observed is intense potassic alteration associated with most leucocratic syenites on the property. Epidote, chlorite and limonite alteration is quite pervasive within the monzodiorite but usually weak to only locally moderate.

No major structural features were noted on the Ten Main grid.

The intrusives, comprising leucocratic syenite, mesocratic syenite, monzonite and diorite, are in contact with andesites on the Ten Northeast grid. This contact trends northwest and is irregular. Leucocratic and mesocratic syenites intrude the andesites. No significant alteration other than strong chlorite alteration in the andesites was observed on the Ten Northeast grid.

7.1.1.2 Ten - Recon Rock Geochemical Results

Sixty-four rock samples were collected on the Ten Main grid while fifteen rock samples were collected on the Ten Northeast grid. The highest gold value encountered on both grids was 110 ppb while all others are below 65 ppb. The 110 ppb Au value is from a quartz vein float sample which contained minor malachite stain and disseminated chalcopyrite, bornite and molybdenum.

Several rock samples have returned anomalous copper values up to 0.53 percent. This value was detected from the sample which returned the 110 ppb Au value. Most other anomalous copper values are below 1500 ppm.

7.1.1.3 Ten - Recon Soil Geochemical Results

Only spotty gold highs in soil were detected on the Ten Main and Ten Northeast grids. Most anomalies are single station anomalies of which the highest on the Main grids is 80 ppb and 40 ppb on the Northeast grid.

As on the Steele property, copper anomalies are much more prevalent than gold. Most major anomalies are rimming the ridges of the cirque on the Main grid with a few smaller anomalies present in the basin of the cirque. At the Northeast grid the copper values are primarily concentrated within the intrusives. Although these values are quite extensive (100 m by 300 m) on both grids they are relatively low order anomalies. The highest copper value on the Main grid is 1200 ppm with most anomalous values ranging between 300 to 600 ppm. At the Northeast grid the highest copper value is 780 ppm with most being in the 300 to 400 ppm range.

7.1.1.4 Ten - Recon Ground Geophysical Results

Due to the rather subtle differences in magnetite content in most rock types the mag data did not reveal anything of significance. Two mag highs were detected on the Main grid but are hosted entirely within the monzodiorite. Presumably these highs are merely reflecting higher magnetite concentrations in the monzodiorite. These highs do not relate to any rock or soil anomaly. Magnetic lows occur along the western rim and in the southeast end of the cirque. The western mag low does coincide with a broad copper anomaly in this area but it is questionable whether there is any direct relation. The southeastern mag anomaly does not relate to anything whatsoever.

Mag surveys in Ten Northeast area appear to be inconclusive.

Appendix 1 - Ten - Analytical Results for Rocks

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SPECIALISTS IN MINERAL ENVIRONMENTS
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VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1119-RG1

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: AUG-22-90
Copy 1: CYPRUS GOLD CANADA, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-12-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
02629	5	51
02630	5	38
02631	5	24
02632	5	67
02633	5	157
02634	5	725
02635	5	1850
02636	5	2800
02637	5	106
02638	5	111
02639	5	360
02640	10	2950
02641	5	235
02642	5	720
02643	65	3300
02644	5	53
02645	10	2550
02646	5	38
02647	5	420
02648	5	680
02649	5	1690
02650	5	350
02651	5	430
02652	5	565
02653	10	18
02654	5	19
02655	5	153
02656	5	225
02657	5	230
02658	5	86
STD	440	

Hawk

Ten

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NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1119-RG2

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: AUG-23-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 26 ROCK samples submitted AUG-12-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
02659	5	28
02660	5	53
02661	5	57
02662	10	84
02663	5	16
02664	65	2600
02665	5	102
02666	5	77
02667	5	14
02519	5	1030
02520	5	18
02521	10	192
02522	5	119
02523	5	840
02524	5	83
02525	140	12500
02526	5	60
02527	5	76
02528	5	4400
02529	10	4600
02530	40	1980
02531	175	575
02532	5	500
02533	5	92
02463	5	41
02464	5	35
STD	440	

Ken

Hawk

Steele

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1226-RG1

Company: CYPRUS GOLD
Project: HOGEM
Attn: DAVID B.STEVENSON

Date: AUG-26-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-21-90 by DAVID B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM	
2534	315	7550	
2535	5	2750	
2536	150	10500	
2537	5	220	
2538	155	14250	ET
2539	40	4350	
2540	40	770	
2541	140	6850	
2542	10	3550	
2543	10	370	
2544	5	1370	
2545	5	28	
2546	5	1030	
2547	5	360	0SSW
2548	5	195	
2549	10	98	OSE
2550	5	124	
2551	5	1130	STN
2552	5	330	
2553	5	680	
2554	5	380	
2555	5	1220	
2556	5	82	
2557	10	150	Ten
2558	20	370	
2559	5	218	
2560	25	670	
2561	5	4450	
2562	5	1410	
2563	5	230	
STD	400		

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1226-RG2

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: DAVID B.STEVENSON

Date: AUG-29-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-21-90 by DAVID B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM	
2564	110	5300	
2565	20	580	
2566	15	1720	
2567	5	1300	
2568	5	210	
2569	5	4200	
2570	5	90	Ton Main
2571	10	165	
2572	5	345	
2573	5	180	
2574	5	140	
2575	5	380	
2576	5	135	
2577	5	280	
2668	5	105	
2669	5	70	
2670	10	105	
2671	15	85	
2672	5	15	
2673	5	485	
2674	10	115	
2675	15	1990	
2676	5	40	
2677	95	19350	
2678	5	150	
2679	5	165	
2680	10	125	
2681	5	120	
2682	5	60	OSNE
2683	5	50	
STD	440		

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1226-RG3

Company: CYPRUS GOLD
Project: HOGEM
Attn: DAVID B.STEVENSON

Date: AUG-29-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-21-90 by DAVID B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM	
2684	5	141	
2685	5	148	
2686	5	92	
2687	5	144	
2688	10	9	ONNE
2689	5	136	
2690	5	90	
2691	5	94	
2692	5	5	OSSE
2693	5	7	
2694	90	7700	
2695	5	29	ET
2696	5	68	
2697	10	102	
2698	5	13	
2699	5	105	STS
2700	5	510	
2701	5	210	
2702	5	598	
2703	5	113	
2704	10	77	
2705	5	90	
2706	5	109	STN
2707	5	385	
2708	5	271	
2709	5	89	
2710	5	296	
2711	5	325	Steele Main
2712	10	252	
2713	5	310	Ten
STD	410		

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

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1226-RG4

Company: CYPRUS GOLD
Project: HOGEM
Attn: DAVID B.STEVENSON

Date: AUG-27-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-21-90 by DAVID B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
2714	5	198
2715	5	110
2716	5	140
2717	5	12
2718	5	132
2719	10	179
2720	20	256
2721	15	700
2722	5	198
2723	5	48
2724	5	162
2725	10	338
2726	30	650
2727	5	310
2728	5	149
2729	5	465
2730	10	815
2731	5	438
2732	5	138
2733	5	805
2734	5	195
2735	5	95
2736	5	93
2737	15	8
2738	5	170
2739	5	9
2740	5	142
2741	5	104
2742	5	845
2743	5	98
STD	390	

all Ten

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705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1226-RG5

Company: CYPRUS GOLD
Project: HOGEM
Attn: DAVID B.STEVENSON

Date: AUG-26-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 9 ROCK samples submitted AUG-21-90 by DAVID B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
2744	5	157
2745	5	58
2746	5	210
2747	5	81
2748	5	270
2749	5	76
2750	5	215
2751	5	81
2752	5	191
STD	415	

All Ten

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Appendix 2 - Ten - Analytical Results for Soils

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705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1118-SC7

Company: CYPRUS (GOLD)
Project: HOGEM
Attn: D.STEVENSON

Date: AUG-20-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-13-90 by D.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
HNW1800 11+25N	60	331
HNW1800 12+00N	45	117
HNW1800 12+75N	30	21
HNW1800 13+50N	5	62
HNW1800 14+25N	160	78
HNW1800 15+00N	5	40
HNW1750 4+50N	20	495
HNW1750 6+00N	65	356
HNW1750 6+75N	40	167
HNW1750 7+50N	20	261
HNW1750 8+25N	5	257
HNW1750 9+00N	5	108
HNW1750 9+75N	5	143
HNW1750 10+50N	5	109
HNW1750 11+25N	5	32
HNW1750 12+00N	5	46
HNW1750 12+75N	90	184
HNW1750 13+50N	75	137
HNW1750 14+25N	30	47
HNW1750 15+00N	185	68
TNE1720 0+00E	5	267
TNE1720 0+75E	5	218
TNE1720 1+50E	5	258
TNE1720 2+25E	5	127
TNE1720 3+00E	5	67
TNE1720 3+75E	5	192
TNE1720 4+50E	5	168
TNE1720 5+25E	5	293
TNE1720 6+00E	5	53
TNE1720 6+75E	5	41
STD	450	

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1118-SG8

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.STEVENSON

Date: AUG-21-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-13-90 by D.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TNE1720 7+50E	5	225
TNE1720 8+25E	5	210
TNE1720 9+00E	5	295
TNE1720 9+75E	40	162
TNE1720 10+50E	5	300
TNE1720 11+25E	5	295
TNE1720 12+00E	5	280
TNE1720 12+75E	5	147
TNE1720 13+50E	5	102
TNE1720 14+25E	5	31
TNE1720 15+00E	5	88
TNE1720 15+75E	25	148
TNE1720 16+50E	20	153
TNE1720 17+25E	5	255
TNE1720 18+00E	5	230
TNE1720 18+75E	10	172
TNE1720 19+50E	5	585
TNE1720 20+50E	5	146
TNE1720 21+00E	5	110
TNE1660 0+00W	5	91
TNE1660 0+75W	20	58
TNE1660 1+50W	5	93
TNE1660 2+25W	5	107
TNE1660 3+00W	5	171
TNE1660 3+75W	5	178
TNE1660 4+50W	30	97
TNE1660 5+25W	5	390
TNE1660 6+00W	5	100
TNE1660 6+75W	5	74
TNE1660 7+50W	5	215
STD	440	

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1118-SG9

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.STEVENSON

Date: AUG-22-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-13-90 by D.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TNE1660 8+25W	5	75
TNE1660 9+00W	5	76
TNE1660 9+75W	5	71
TNE1660 10+50W	10	56
TNE1660 11+25W	5	60
TNE1660 12+00W	5	50
TNE1660 12+75W	5	84
TNE1660 13+50W	5	58
TNE1900 2+25E	5	220
TNE1900 3+00E	5	235
TNE1900 3+75E	5	245
TNE1900 4+50E	5	385
TNE1900 6+00E	5	765
TNE1900 6+75E	5	152
TNE1900 7+50E	5	750
TNE1900 8+25E	5	780
TNE1900 9+00E	5	690
TNE1900 9+75E	10	440
TNE1900 10+50E	5	485
TNE1900 11+25E	5	230
TNE1900 12+00E	5	235
TNE1900 12+75E	5	168
TNE1900 13+50E	5	282
TNE1900 14+25E	5	150
TNE1900 15+00E	10	165
TNE1900 15+75E	5	85
TNE1900 16+50E	5	130
TNE1900 17+25E	5	138
TNE1900 18+00E	5	114
TNE1900 18+75E	5	74
STD	460	

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FAX (604) 980-9621

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1118-SG10

Company: CYPRUS GOLD
Project: HOGEM
Attn: D.STEVENSON

Date: AUG-20-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-13-90 by D.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TNE1900 19+50E	5	128
TNE1900 21+00E	5	235
TNE1800 0+00E	5	166
TNE1800 0+75E	5	143
TNE1800 1+50E	5	370
TNE1800 2+25E	10	360
TNE1800 3+00E	5	445
TNE1800 3+75E	15	350
TNE1800 4+50E	5	290
TNE1800 5+25E	5	340
TNE1800 6+00E	5	165
TNE1800 6+75E	5	69
TNE1800 7+50E	5	106
TNE1800 8+75E	5	325
TNE1800 9+00E	5	114
TNE1800 9+75E	5	395
TNE1800 10+50E	5	450
TNE1800 11+25E	5	275
TNE1800 12+75E	5	102
TNE1800 13+50E	5	410
TNE1800 14+25E	35	168
TNE1800 15+00E	5	300
TNE1800 15+75E	5	125
TNE1800 16+50E	5	123
TNE1800 17+25E	20	220
TNE1800 18+00E	5	194
TNE1800 18+75E	5	187
TNE1800 19+50E	5	99
TNE1800 20+25E	5	122
TNE1800 21+00E	5	71
STD	425	

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FAX (604) 980-9621

THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1118 SC11

Company: CYPRUS GOLD
Project: HOGEM
Attn: D.STEVENSON

Date: AUG-20-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-13-90 by D.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TNE1800 21+75E	5	105
TNE1800 22+50E	5	131
TNE1800 23+25E	5	109
TNE1800 24+00E	10	272
TNE1800 24+75E	5	177
TNE1800 25+50E	5	168
HE1700 0+75S	5	63
HE1700 1+50S	15	89
HE1700 2+25S	5	64
HE1700 3+00S	5	137
HE1700 3+75S	75	52
HE0+00W 0+00N	40	10
HE0+00W 0+50N	5	53
HE0+00W 1+00N	25	64
HE0+00W 1+50N	5	42
HE0+00W 2+00N	5	47
HE0+00W 2+50N	5	463
HE0+00W 3+00N	25	142
HE0+00W 3+50N	10	37
HE0+00W 4+00N	10	39
HE0+00W 4+50N	25	41
HE0+00W 5+00N	5	28
HE0+00W 5+50N	20	32
HE1+00W 0+50N	5	38
HE1+00W 1+00N	65	30
HE1+00W 1+50N A	150	47
HE1+00W 1+50N B	100	88
HE1+00W 1+50N C	10	91
HE1+00W 2+00N	5	99
HE1+00W 2+50N	5	73
STD	435	

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TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1118-SG14

Company: CYPRUS GOLD
Project: HOGEM
Attn: D.STEVENSON

Date: AUG-20-90
Copy 1. CYPRUS GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 11 SOIL samples submitted AUG-13-90 by D.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
HE5+00W 5+00N	5	41
HE5+00W 5+50N	5	9
HE1+50W 0+00N	5	216
TNE1840 24+00E	10	153
TNE1845 20+25E	5	107
TNE1850 21+75E	5	69
TNE1850 23+25E	5	100
TNE1855 22+50E	5	62
TNE1860 0+00E	5	167
TNE1860 0+75E	5	157
TNE1860 1+50E	5	247
STD	415	

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TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG18

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 29 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
HE 1720 3+00S(B)	120	47
HE 1720 3+00S(C)	200	35
HE 1720 0+00N(A)	5	21
HE 1720 0+00N(C)	5	29
TEN 750E 0+00S	20	7
TEN 750E 0+75S	10	58
TEN 750E 1+50S	5	12
TEN 750E 2+25S	5	11
TEN 750E 3+00S	25	38
TEN 750E 3+75S	10	181
TEN 750E 4+50S	5	28
TEN 750E 5+25S	5	186
TEN 750E 6+00S	NO	SAMPLE
TEN 750E 0+75N	5	26
TEN 750E 1+50N	10	312
TEN 750E 2+25N	5	81
TEN 750E 3+00N	5	114
TEN 750E 3+75N	5	213
TEN 750E 4+50N	10	96
TEN 750E 5+25N	5	107
TEN 750E 6+00N	5	26
TEN 750E 6+75N	10	53
TEN 1000E 0+00S	5	107
TEN 1000E 0+75S	5	79
TEN 1000E 1+50S	5	45
TEN 1000E 2+25S	5	107
TEN 1000E 3+00S	5	107
TEN 1000E 3+75S	5	515
TEN 1000E 4+50S	5	8
TEN 1000E 5+25S	5	14
STD	450	

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG19

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-04-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 28 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1000E 6+00S	5	18
TEN 1000E 0+00N	NO	SAMPLE
TEN 1000E 0+75N	5	54
TEN 1000E 1+50N	5	104
TEN 1000E 2+25N	5	69
TEN 1000E 3+00N	5	48
TEN 1000E 3+75N	10	21
TEN 1700 0+75W	5	64
TEN 1700 1+50W	5	181
TEN 1700 2+25W	5	78
TEN 1700 3+00W	5	39
TEN 1700 3+75W	5	184
TEN 1700 4+50W	5	211
TEN 1700 5+25W	5	321
TEN 1700 6+00W	10	193
TEN 1700 6+75W	10	74
TEN 1700 7+50W	5	76
TEN 1700 8+25W	5	267
TEN 1800 0+00E	5	319
TEN 1800 0+75E	5	112
TEN 1800 1+50E	NO	SAMPLE
TEN 1800 2+25E	5	150
TEN 1800 3+00E	10	145
TEN 1800 3+75E	5	489
TEN 1800 4+50E	10	523
TEN 1800 5+25E	5	491
TEN 1800 6+00E	5	317
TEN 1800 6+75E	5	651
TEN 1800 7+50E	5	445
TEN 1800 8+25E	5	363
STD	440	

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG20

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1800 9+00E	5	392
TEN 1800 9+75E	5	481
TEN 1800 10+50E	30	620
TEN 1800 11+25E	10	451
TEN 1800 12+00E	5	592
TEN 1800 12+75E	10	431
TEN 1500E 0+00S	5	134
TEN 1500E 0+75S	20	119
TEN 1500E 1+50S	5	471
TEN 1500E 2+25S	10	123
TEN 1500E 3+00S	10	251
TEN 1500E 3+75S	5	51
TEN 1500E 4+50S	5	22
TEN 1500E 5+25S	5	167
TEN 1500E 6+00S	5	141
TEN 1250E 0+00S	10	38
TEN 1250E 0+75S	10	31
TEN 1250E 1+50S	5	250
TEN 1250E 2+25S	5	575
TEN 1250E 3+00S	15	98
TEN 1250E 3+75S	10	143
TEN 1250E 4+50S	5	135
TEN 1250E 5+25S	5	31
TEN 1250E 6+00S	10	174
TEN 500E 0+00N	5	68
TEN 500E 0+75N	10	52
TEN 500E 1+50N	5	201
TEN 500E 2+25N	10	153
TEN 500E 3+00N	5	221
TEN 500E 3+75N	5	140
STD	470	

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1227-SG21

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 500E 4+50N	5	111
TEN 500E 5+25N	5	134
TEN 500E 6+00N	5	90
TEN 500E 6+75N	10	113
TEN 500E 7+50N	5	21
TEN 500E 8+25N	5	61
TEN 500E 9+00N	5	60
TEN 500E 9+75N	10	193
TEN 250W 9+00N	5	284
TEN 250W 9+75N	5	197
TEN 250W 10+50N	5	725
TEN 250W 11+25N	5	231
TEN 250W 12+00N	5	92
TEN 250W 12+75N	10	153
TEN 250E 0+75N	5	331
TEN 250E 1+50N	5	331
TEN 250E 2+25N	5	206
TEN 250E 3+00N	15	207
TEN 250E 3+75N	5	64
TEN 250E 4+50N	5	52
TEN 250E 5+25N	5	134
TEN 250E 6+00N	5	270
TEN 250E 6+75N	5	144
TEN 250E 7+50N	5	41
TEN 250E 8+25N	5	99
TEN 250E 9+00N	5	62
TEN 250E 9+75N	10	93
TEN 250E 10+50N	5	319
TEN 250E 11+25N	5	19
TEN 250E 12+00N	5	91
STD	410	

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705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
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FAX (604) 980-9621

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TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG22

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 250E 12+75N	10	41
TEN 000 8+25N	15	730
TEN 000 9+00N	35	427
TEN 000 9+75N	10	304
TEN 000 10+50N	5	135
TEN 000 11+25N	5	291
TEN 000 12+00N	10	188
TEN 000 12+75N	5	51
TEN 1700 0+00E	20	113
TEN 1700 0+75E	5	73
TEN 1700 1+50E	5	468
TEN 1700 2+25E	5	421
TEN 1700 3+00E	5	227
TEN 1700 3+75E	5	507
TEN 1700 4+50E	10	203
TEN 1700 5+25E	30	241
TEN 1700 6+00E	10	491
TEN 1700 6+75E	5	193
TEN 1700 7+50E	5	343
TEN 1700 8+25E	5	313
TEN 1700 9+00E	5	41
TEN 1700 9+75E	5	122
TEN 1700 10+50E	5	182
TEN 1700 11+25E	5	141
TEN 1700 12+00E	5	98
TEN 1700 12+75E	5	650
TEN 1700 13+50E	5	280
TEN 1700 14+25E	5	407
TEN 1700 15+00E	5	785
TEN 1700 15+75E	5	150
STD	425	

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG23

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1700 16+50E	15	825
TEN 1600 0+00E	20	53
TEN 1600 0+75E	5	22
TEN 1600 1+50E	10	246
TEN 1600 2+25E	5	200
TEN 1600 3+00E	5	313
TEN 1600 3+75E	5	61
TEN 1600 4+50E	5	464
TEN 1600 5+25E	5	261
TEN 1600 6+00E	5	78
TEN 1600 6+75E	5	287
TEN 1600 7+50E	35	174
TEN 1600 8+25E	5	79
TEN 1600 9+00E	5	118
TEN 1600 9+75E	5	369
TEN 1600 10+50E	10	475
TEN 1600 11+25E	10	70
TEN 1600 12+00E	5	31
TEN 1600 12+75E	5	109
TEN 1600 13+50E	5	135
TEN 1600 14+25E	15	53
TEN 1600 15+00E	40	505
TEN 750W 0+00N	60	94
TEN 750W 0+75N	10	168
TEN 750W 1+50N	5	200
TEN 750W 2+25N	30	91
TEN 750W 3+75N	30	43
TEN 750W 0+75S	5	195
TEN 750W 1+50S	5	194
TEN 750W 2+25S	5	357
STD	430	

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG24

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 750W 3+00S	5	78
TEN 750W 3+75S	20	65
TEN 750W 4+50S	10	62
TEN 750W 5+25S	5	221
TEN 1000W 0+00N	5	168
TEN 1000W 0+75N	5	95
TEN 1000W 1+50N	5	389
TEN 1000W 2+25N	5	171
TEN 1000W 3+00N	5	381
TEN 1000W 3+75N	10	298
TEN 1000W 0+75S	5	108
TEN 1000W 1+50S	10	845
TEN 1000W 2+25S	5	610
TEN 1000W 3+00S	5	760
TEN 250W 0+00N	10	210
TEN 250W 0+75N	5	245
TEN 250W 1+50N	5	118
TEN 250W 2+25N	5	110
TEN 250W 3+00N	30	493
TEN 250W 3+75N	10	42
TEN 1800 0+00	5	431
TEN 1800 0+75	5	665
TEN 1800 1+50	5	371
TEN 1800 2+25	5	393
TEN 1800 3+00	5	187
TEN 1800 3+75	5	128
TEN 1800 4+50	5	342
TEN 1800 5+25	10	157
TEN 1800 6+00	5	223
TEN 1800 6+75	5	141
STD	400	

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FAX (604) 980-9621

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TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG25

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-04-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1800 7+50S	5	171
TEN 1800 8+25S	10	211
TEN 1800 9+00S	5	180
TEN 1800 9+75S	10	108
TEN 1800 10+50S	5	143
TEN 1800 11+25S	5	140
TEN 1800 12+00S	10	302
TEN 1800 12+75S	5	149
TEN 1800 13+50S	5	317
TEN 1800 14+25S	5	560
TEN 1800 15+00S	5	128
TEN 1800 15+75S	5	110
TEN 1800 16+50S	10	350
TEN 1800 17+25S	5	124
TEN 1800 18+00S	5	320
TEN 1800 18+75S	5	119
TEN 1800 19+50S	5	238
TEN 1800 20+25S	5	740
TEN 1800 21+00S	5	475
TEN 1800 21+75S	10	550
TEN 1800 22+50S	5	645
TEN 1800 23+25S	5	1200
TEN 1800 24+00S	5	514
TEN 1800 24+75S	5	570
TEN 1800 25+50S	5	495
TEN 1800 26+25S	5	76
TEN 1800 27+00S	5	162
TEN 1800 27+75S	5	322
TEN 1800 28+50S	10	360
TEN 1800 29+25S	10	169
STD	400	

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FAX (604) 980-9621

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TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG26

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-04-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 28 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1800 30+00S	5	168
TEN 1800 30+75S	5	140
TEN 1800 31+50S	10	150
TEN 1800 32+25S	5	184
TEN 1800 33+00S	5	45
TEN 1800 33+75S	5	280
TEN 1800 34+50S	10	600
TEN 1800 35+25S	5	445
TEN 1800 36+00S	NO	SAMPLE
TEN 1800 36+75S	NO	SAMPLE
TEN 1800 37+50S	15	590
TEN 1800 38+25S	5	560
TEN 1250W 0+00S	20	434
TEN 1250W 0+75S	5	88
TEN 1250W 1+50S	5	295
TEN 1250W 0+00N	5	150
TEN 1250W 0+75N	10	300
TEN 500W 0+00S	5	388
TEN 500W 0+75S	5	169
TEN 500W 1+50S	5	273
TEN 500W 2+25S	5	65
TEN 500W 3+00S	5	90
TEN 500W 3+75S	10	61
TEN 500W 4+50S	5	40
TEN 500W 5+25S	5	65
TEN 500W 0+75N	5	143
TEN 500W 1+50N	5	62
TEN 500W 2+25N	5	132
TEN 500W 3+00N	5	287
TEN 500W 3+75N	5	260
STD	430	

Certified by _____

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FAX (604) 980-9621

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG27

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-03-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1900 0+00S	5	471
TEN 1900 0+75S	5	223
TEN 1900 1+50S	5	293
TEN 1900 2+25S	5	304
TEN 1900 3+00S	5	173
TEN 1900 3+75S	5	147
TEN 1900 4+50S	5	152
TEN 1900 5+25S	5	130
TEN 1900 6+00S	5	121
TEN 1900 6+75S	10	193
TEN 1900 7+50S	5	454
TEN 1900 8+25S	5	483
TEN 1900 9+00S	5	173
TEN 1900 9+75S	20	560
TEN 1900 10+50S	40	261
TEN 1900 11+25S	40	391
TEN 1900 12+00S	5	555
TEN 1900 12+75S	5	263
TEN 1900 13+50S	5	391
TEN 1900 14+25S	10	605
TEN 1900 15+00S	5	531
TEN 1900 15+75S	5	235
TEN 1900 16+50S	15	421
TEN 1900 17+25S	15	610
TEN 1900 18+00S	5	141
TEN 1900 18+75S	5	310
TEN 1900 19+50S	5	274
TEN 1900 20+25S	5	91
TEN 1900 21+00S	5	96
TEN 1900 21+75S	5	60
STD	425	

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG28

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-04-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 1900 22+50S	10	255
TEN 1900 23+25S	5	160
TEN 1900 24+00S	5	243
TEN 1900 24+75S	10	505
TEN 1900 25+50S	20	840
TEN 1900 26+25S	5	890
TEN 1900 27+00S	30	284
TEN 1900 27+75S	5	330
TEN 1900 28+50S	10	210
TEN 1900 29+25S	5	200
TEN 1900 30+00S	5	132
TEN 1900 30+75S	5	140
TEN 1900 31+50S	5	397
TEN 1900 32+25S	10	551
TEN 1900 33+00S	5	520
TEN 1900 33+75S	5	332
TEN 1900 34+50S	5	124
TEN 1900 35+25S	5	402
TEN 1900 36+75S	5	670
TEN 1900 37+50S	10	329
TEN 1900 38+25S	10	46
TEN 1900 39+00S	5	710
TEN 1900 39+75S	5	590
TEN 1900 40+50S	5	490
TEN 5+00E 0+00S	10	52
TEN 5+00E 0+75S	5	11
TEN 5+00E 1+50S	5	40
TEN 5+00E 2+25S	10	290
TEN 5+00E 3+00S	10	217
TEN 5+00E 3+75S	5	75
STD	460	

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG29

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-04-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 2+50W 0+75S	10	21
TEN 2+50W 1+50S	10	274
TEN 2+50W 2+25S	5	201
TEN 2+50W 3+00S	5	100
TEN 2+50W 3+75S	5	32
TEN 2+50W 4+50S	5	180
TEN 2+50W 5+25S	5	20
TEN 2+50W 6+00S	80	30
TEN 2+50W 6+75S	5	67
TEN 2+50W 7+50S	10	57
TEN 2+50W 8+25S	5	44
TEN 0+00E 0+00S	5	134
TEN 0+00E 0+75S	5	290
TEN 0+00E 1+50S	5	258
TEN 0+00E 2+25S	5	24
TEN 0+00E 3+00S	5	21
TEN 0+00E 3+75S	10	634
TEN 0+00E 4+50S	5	25
TEN 0+00E 5+25S	5	28
TEN 0+00E 6+00S	5	590
TEN 0+00E 6+75S	5	344
TEN 0+00E 7+50S	5	198
TEN 0+00E 8+25S	5	287
TEN 0+00E 0+75N	10	40
TEN 0+00E 1+50N	5	121
TEN 0+00E 2+25N	10	915
TEN 2+50E 0+00S	5	172
TEN 2+50E 0+75S	5	345
TEN 2+50E 1+50S	5	31
TEN 2+50E 2+25S	5	178
STD	390	

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TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1227-SG30

Company: CYPRUS GOLD CANADA
Project: HOGEM
Attn: D.B.STEVENSON

Date: SEP-04-90
Copy 1. CYPRUS GOLD CANADA, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 12 SOILS samples submitted AUG-21-90 by D.B.STEVENSON.

Sample Number	AU-WET PPB	CU PPM
TEN 2+50E 3+00S	10	16
TEN 2+50E 3+75S	5	10
TEN 2+50E 4+50S	5	28
TEN 2+50E 5+25S	5	30
TEN 2+50E 6+00S	5	292
16+00 28+00 S (C)	5	11
ET 1720 3+25 N	5	110
STN 7+50W 1+50S	10	47
HE 1720 4+00SA	15	5
HE 1720 4+00SB	35	8
HE 1720 4+00SC	70	5
TEN 1800 1+75E	10	268
STD	420	

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Appendix 3 - Geochemical Preparation and Analytical Procedures

MINERAL
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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.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621

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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:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621

MINERAL
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Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B. C., laboratory 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 and pulverized on a ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
NADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621

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Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR TRACE ELEMENT ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu,
Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb,
Sr, Th, U, V, Zn, Ga, Sn, W, Cr

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.

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 analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621

Appendix 4 - Project Cost Breakdown

PROJECT COST BREAKDOWN

CYPRUS GOLD (CANADA) LTD.

TEN PROPERTY

(August 5 to August 17, 1990)

Salaries	$12000.00
Report Compilation	$5000.00
Assays	$4702.50
Field Supplies - Cookery	$2939.36
Helicopter ($4995 x 20%)	$999.00
Drafting	$739.76
Mag Rental	$541.65
Freight	$538.50
Truck Rental	$490.76
Travel Expenses	$283.70

Total Project Cost - $28235.23

Appendix 5 - Statement of Qualification

STATEMENT OF QUALIFICATION

I, David B. Stevenson, of the Municipality of North Vancouver in the Province of British Columbia, certify as follows regarding the report on the Ten property, Omineca 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 Ten property.

I am a Fellow of the Geological Association of Canada.

GEOLOGICAL ASSOCIATION OF CANADA
D. B. STEVENSON

David B. Stevenson, B.Sc. FGAC
June 6, 1986

TEN NORTHEAST GRID

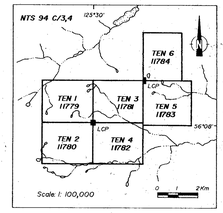
TEN MAIN GRID

TENAKHI CREEK

CYPRUS CAMP

TEN ID POST 18714 4E 2N

NTS 94 C/3,4



LEGEND

1 *PORPHYRY DYKES-* Fine grained massive light grey to chocolate-brown biotite-bearing orthoclase-plagioclase porphyry dyke, only rare locally disseminated cp, py associated with minor quartz stockworking, non magnetic.

2 *LEUCOCRATIC SYENITE-* Fine to coarse grained massive light orange-grey to bright orange biotite-hornblende bearing leucosyenite, local intense potassic alteration, locally minor disseminated py, cp, non magnetic.

3 *MESOCRATIC SYENITE-* Fine to coarse grained massive dark orange-grey biotite-hornblende mesocratic syenite, rare disseminated cp, non to locally weakly magnetic.

4 *MONZONITE-* Fine to coarse grained light-grey biotite-hornblende bearing monzonite, weakly magnetic.

5 *MONZODIORITE-* Medium to coarse grained light to dark grey biotite-hornblende monzodiorite, non to locally very minor disseminated and fracture-filling py,cp, minor to moderate epidote, chlorite and limonite alteration, locally very weak potassic alteration, non magnetic.

6 *DIORITE-* Fine to coarse grained massive dark grey-black biotite-hornblende-rich diorite, non to locally magnetic.

7 *MAFIC VOLCANICS-* Fine grained massive to moderately schistose black-green andesite, abundant chlorite alteration, locally abundant disseminated pyrite, weak to locally strongly magnetic.

SYMBOLS

- Jointing, vertical, inclined
- Shearing
- Outcrop, possible outcrop, float
- Claim post
- Rock sample
- Geological contact known, approximate
- py py1 py2 — Mineralization, weak, moderate, strong; pyrite (py), chalcopyrite (cp), malachite (mal), azurite (az), magnetite (mt), bornite (bo), molybdenum (mo).
- sil silI silII — Alteration, weak, moderate, strong; silicification (sil), chlorite (chl), epidote (ep), potassic (pot), limonite (lim).

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,419

0 200 400 600 800

D. STEVENSON
GEOLOGICAL ASSOCIATION OF CANADA
FELLOW

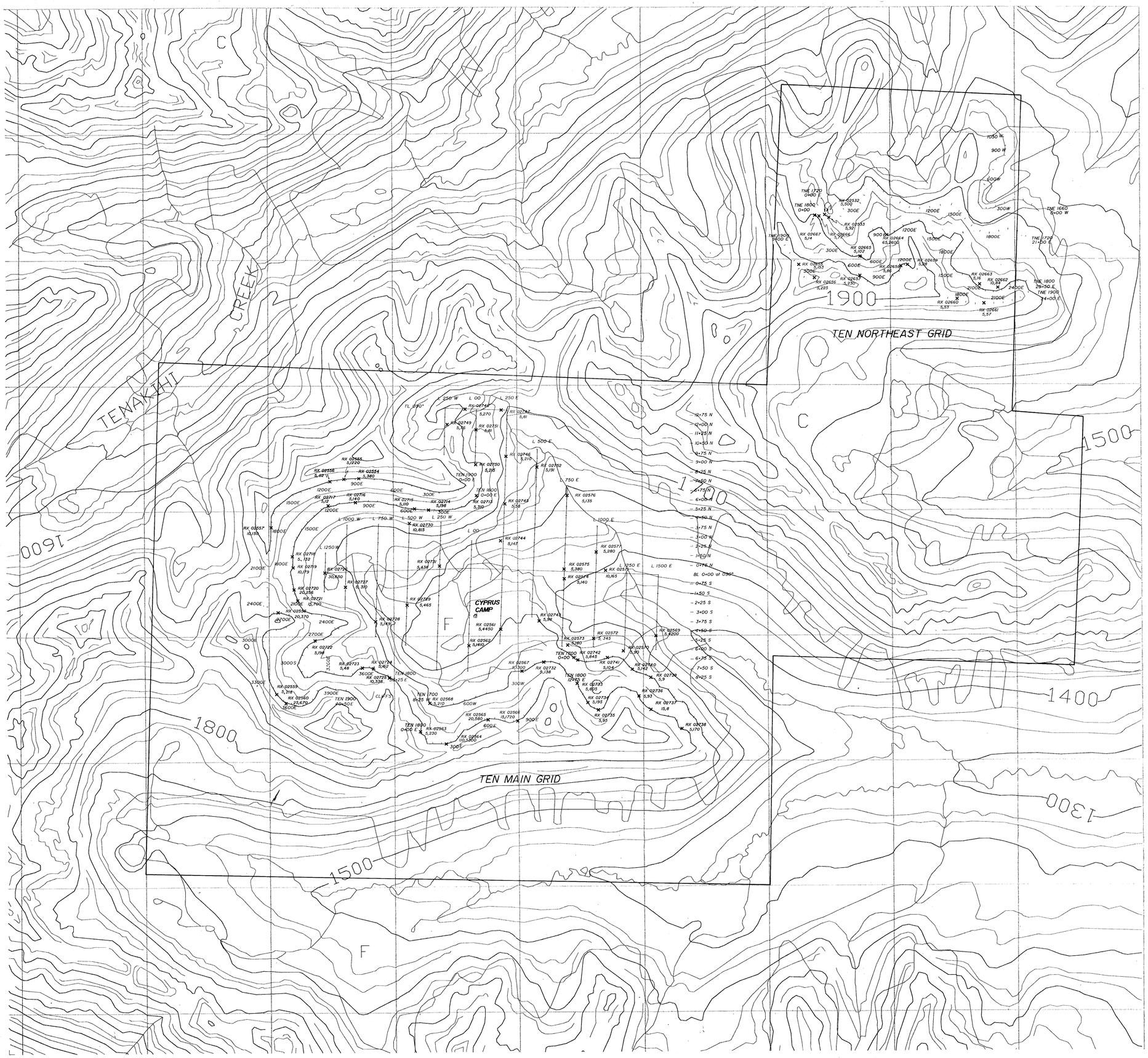
CYPRUS GOLD (Canada) Ltd.

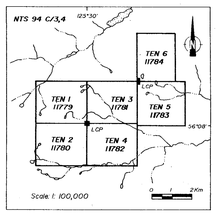
HOGEM PROJECT - TEN PROPERTY

GEOLOGY

NTS 94C/3,4

DRAWN BY D. STEVENSON	SCALE 1:10000
DATE SEPT 1990	MAP No. 1





LEGEND

× RX 02727 5,231 — ROCK SAMPLE Au (ppb), Cu (ppm) unless otherwise noted.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,419

~~PART~~

0 200 400 600 800

GEOLOGICAL ASSOCIATION OF CANADA
D. A. STEVENSON
FELLOW

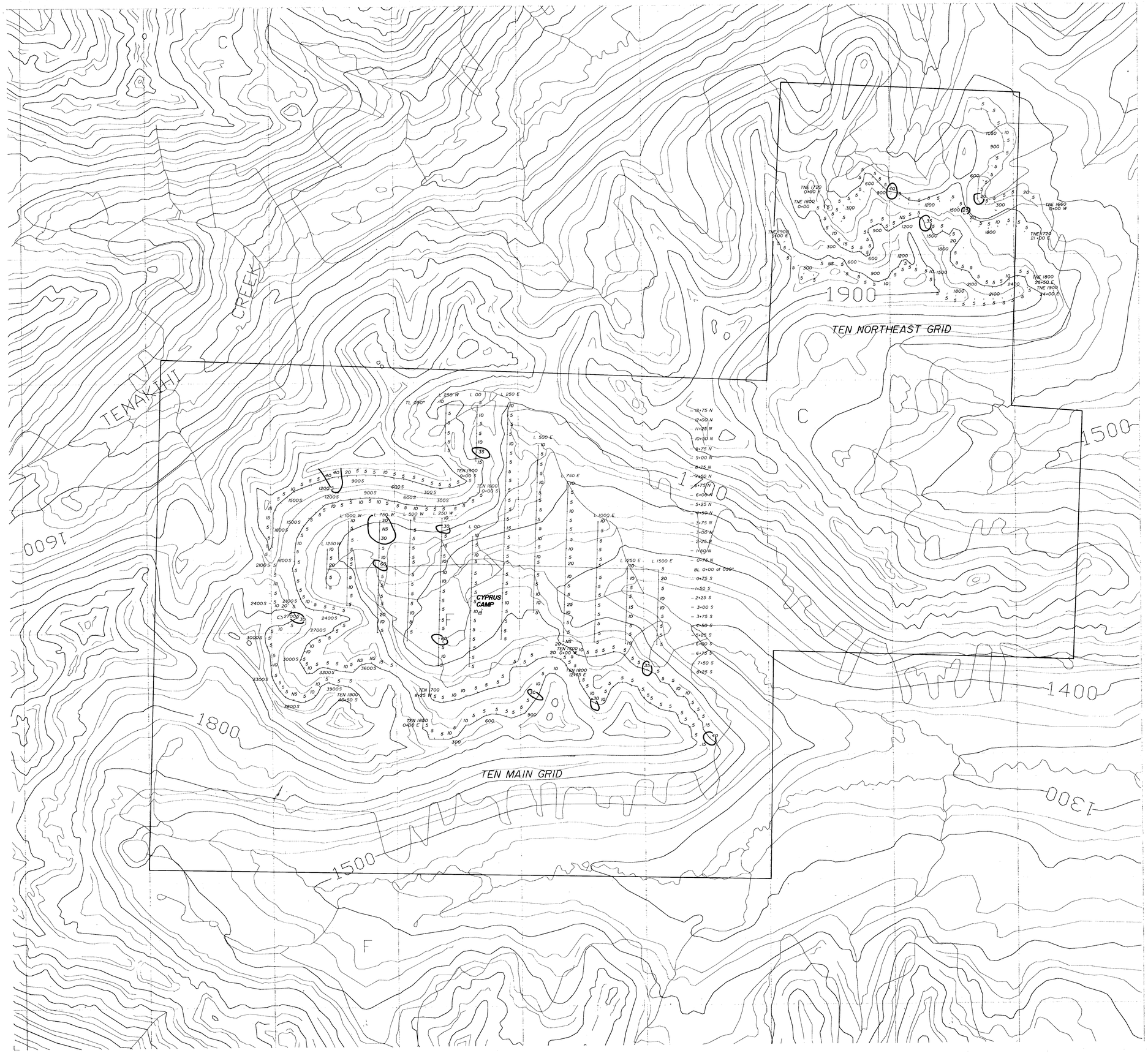
CYPRUS GOLD (Canada) Ltd.

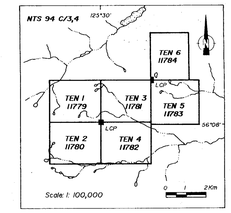
HOGEM PROJECT - TEN PROPERTY

Au-Cu in Rocks

NTS 94 C/3,4

DRAWN BY D. STEVENSON	SCALE 1 : 10000
DATE NOV 1990	MAP No. 2





LEGEND

□ ≥ 30 ppb Au

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,419

GEOLOGICAL ASSOCIATION OF CANADA — D. STEVENSON — FELLOW

0 200 400 600 800

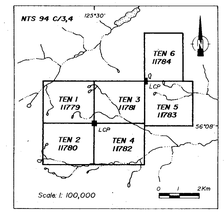
CYPRUS GOLD (Canada) Ltd.

HOGEM PROJECT - TEN PROPERTY

Au (ppb) in Soils

NTS 94C/3,4

DRAWN BY D. STEVENSON	SCALE 1 : 10000
DATE NOV 1990	MAP No. 3



LEGEND

☐ ≥ 300 ppm Cu

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,419

0 200 400 600 800

J. S. STEVENSON
ASSOCIATION OF ONTARIO LAND SURVEYORS
FELLOW

CYPRUS GOLD (Canada) Ltd.

HOGEM PROJECT - TEN PROPERTY

Cu (ppm) in Soils

NTS 94C/3,4

DRAWN BY D. STEVENSON	SCALE 1:10000
DATE NOV 1990	MAP No. 4

TEN NORTHEAST GRID

TEN MAIN GRID

TENAKHT CREEK

CLIFFS

CYPRUS CAMP

1900

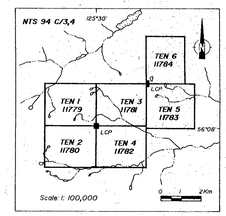
1500

1600

1800

1400

1300



LEGEND

- ≥ 59000 ɣ
- ≥ 58000-58999 ɣ
- ≥ 57000-57999 ɣ
- ≤ 56999 ɣ

* Note : All values are in gammas.

0 200 400 600 800

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,419

2.

CANADIAN ASSOCIATION OF GEOPHYSICISTS
D. B. STEVENSON
FELLOW

CYPRUS GOLD (Canada) Ltd.

HOGEM PROJECT - TEN PROPERTY

PROTON MAG SURVEY

NTS 94C/3,4

DRAWN BY D. STEVENSON	SCALE 1:10000
DATE OCT 1990	MAP No. 5