BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM MINISTRY OF ENERGY AND MINES GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:1998/99REPORT #:PAP 98-39NAME:GRANT CROOKER

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM **PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

One technical report to be completed for each project area.

- Refer to Program Requirements/Regulations 15 to 17, page 6.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

NameGrant Crooker	Reference Number 97/98 P89
LOCATION/COMMODITIES Project Area (as listed in Part A) Hedley	MINFILE No. if applicable 92H-SE-173
Location of Project Area NTS 92H-1E, 8E	Lat 49 15 50 Long 120 13 15
Description of Location and Access <u>located 15 kilom</u> ern BC. Access is via Sterling Creek	etres southwest of Hedley in south- logging road, 8 kilometres west
Of Hedley. Main Commodities Searched For <u>Au</u> , <u>Ag</u> , <u>Zn</u> , <u>Pb</u> , <u>C</u>	

Known Mineral Occurrences in Project Area Rodgers Showing

1. Conventional Prospecting (are	a) 110	hectares
T. CONVENIENT TOSPOOLING (4)	ш,	

2. Geological Mapping (hectares/scale) 110 hectares, 1:5,000, 1:2,500

3. Geochemical (type and no. of samples) 304 soils, 34 silts, 69 rocks

4. Geophysical (type and line km) 12.81 magnetics, 11.5 VLF-EM

5. Physical Work (type and amount)

6. Drilling (no holes, size, depth in m, total m)

7. Other (spec fy) grid, 13.65 line kms

SIGNIFICANT RESULTS

Commodities Zn, Pb, Cu, Ag	Claim Name Cap 2
Location (show on map) Lat 49 15	
Best assay/sample type select (0	33) 1.57% Zn, 760 ppm Pb, 879 ppm Cu, 8.8 ppm Ag
<u>select (100) 5960 ppm Z</u>	1, 5710 ppm Pb, 4.4 ppm Ag
select (100) 5960 ppm Z	1, 5710 ppm Pb, 4.4 ppm Ag

Description of mineralization, host rocks, anomalies The property, is underlain by Late Triassic Whistle and Stemwinder formations of the Nicola Group that have been intruded bt Late Triassic Hedley intrusions and Mid-Jurassic Cahill Creek pluton. Sphalerite, galena and chalcopyrite occur as disseminations and along fractures in grey to green calc-silicate skarns. The mineralization has been traced over a 100 metre strike length in outcrop and float. A number of Zn-Pb-Aq-Cu-As soil geochemical anomalies have been found, many coinciding with magnetic highs interpreted to be Hedley intrusive drives,

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

Prospectors Assistance Program - Guidebook 1998

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GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT 1 6 1998

on the

CAP 1 and 2 MINERAL CLAIMS

Hedley Area Similkameen Mining Division OCT 1 3 1998 PROSPECTORS PROGRAM MEMPR

92H-1E, 8E (49° 14' 50" North Latitude, 120° 13' 15" West Longitude)

for

GRANT F. CROOKER Box 404 Keremeos, B.C. V0X 1N0

(Owner and Operator)

by

GRANT F. CROOKER, P.Geo., GFC CONSULTANTS INC.

August 1998

TABLE OF CONTENTS

1.0	SUMMARY	1
2.0	INTRODUCTION 2.1 GENERAL 2.2 LOCATION AND ACCESS 2.3 PHYSIOGRAPHY 2.4 PROPERTY AND CLAIM STATUS 2.5 AREA AND PROPERTY HISTORY	2 2 2 2 2 4
3.0	EXPLORATION PROCEDURE 3.1 GRID PARAMETERS 3.2 GEOCHEMICAL SURVEY PARAMETERS 3.3 GEOPHYSICAL SURVEY PARAMETERS 3.3.1 Total Field Magnetic Survey 3.3.2 VLF-EM Survey	7 7 8 8 8
4.0	GEOLOGY AND MINERALIZATION 4.1 REGIONAL GEOLOGY 4.2 HEDLEY DISTRICT GOLD DEPOSITS 4.3 CLAIM GEOLOGY 4.4 MINERALIZATION	9 10 10 12 13
5.0	GEOCHEMISTRY 5.1 SILT GEOCHEMISTRY 5.2 SOIL GEOCHEMISTRY	14 14 14
6.0	GEOPHYSICS 6.1 MAGNETIC SURVEY 6.2 VLF-EM SURVEY	17 17 18
7.0	EXPLORATION TARGET AREAS	19
8.0	CONCLUSIONS	20
9.0	RECOMMENDATIONS	21
10.0	REFERENCES	22
11.0	CERTIFICATE OF QUALIFICATIONS	23

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PAGE

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TABLES

TABLE		PAGE
TABLE 1.0	CLAIM DATA	3
TABLE 2.0	1983 ANOMALOUS SOIL GEOCHEMICAL VALUES	4
TABLE 3.0	HEDLEY DISTRICT GEOLOGICAL HISTORY	11
TABLE 4.0	ANOMALOUS SILT GEOCHEMICAL VALUES	14
TABLE 5.0	ANOMALOUS SOIL GEOCHEMICAL VALUES	14
TABLE 6.0	EXPLORATION TARGET AREAS	19

LIST OF FIGURES

FIGURE

٠,

FOLLOWS

FIGURE 1.0	LOCATION MAP	2
FIGURE 2.0	CLAIM MAP	3
FIGURE 3.0	COMPILATION OF PREVIOUS WORK	4
FIGURE 4.0	GEOLOGY	12
FIGURE 5.0	CLAIM GEOLOGY	Pocket
FIGURE 6.0	GEOLOGY RODGERS SHOWING	13
FIGURE 7.0	STREAM SEDIMENT SAMPLING	14
FIGURE 8.0	SOIL GEOCHEMISTRY - Au, Ag	Pocket
FIGURE 9.0	SOIL GEOCHEMISTRY - Pb, Zn	Pocket
FIGURE 10.0	SOIL GEOCHEMISTRY - Cu, As	Pocket
FIGURE 11.0	GROUND TOTAL FIELD MAGNETIC CONTOURS	pocket
FIGURE 12.0	GROUND VLF-EM PROFILES - SEATTLE WA	Pocket
FIGURE 13.0	COMPILATION OF 1998 WORK	Pocket

APPENDICES

APPENDIX 1	CERTIFICATES OF ANALYSIS
APPENDIX II	MAGNETIC AND VLF-EM DATA
APPENDIX III	GEOPHYSICAL EQUIPMENT SPECIFICATIONS
APPENDIX IV	ROCK SAMPLE DESCRIPTIONS
APPENDIX V	COST STATEMENT

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1.0 SUMMARY

The Cap property is located 15 kilometres southwest of Hedley BC in the Hedley Gold Camp (production 2.5 million ounces) of southern British Columbia. The property consists of two four-post mineral claims covering 40 units in the Similkameen Mining Division. Grant F. Crooker of Keremeos, BC is the owner and operator of the property.

Access to the claims is via Highway 3, turning west onto the Sterling Creek forest access road 8 kilometres west of Hedley and proceeding 18 kilometres to the property boundary. The Sterling Creek road is an all weather, two wheel drive road that passes along the eastern boundary of the property. A number of old roads and cat trails provide access to all areas of the property.

The Hedley Gold Camp has a long tradition of mining. Placer mining was first carried out in the Hedley area in the 1860's and 1870's. The interest in placer mining led to the discovery of gold on Nickel Plate Mountain in the 1890's, with the first claims being staked in 1896. The two major producers in the district were the Nickel Plate and Hedley Mascot mines. Production from the district up to 1986 was approximately 51 million grams (1.6 million ounces) of gold. Almost all of the production was from the period 1905 to 1955.

In the 1970's exploration renewed in the Hedley district. Most of the activity concentrated on properties on Nickel Plate Mountain, however exploration was carried out on the south side of the Similkameen River. The most important property in the camp is the Nickel Plate Mine (Homestake Mining). The gold mineralization is skarn hosted and ore reserves in 1987 were in the order of 9,900,000 tons grading 0.088 ounces gold per ton. The mine ceased production in July of 1986.

The Cap property is located on the south side of the Similkameen River. Historically, properties on the south side of the Similkameen River were related to carbonate vein systems and associated shear zones as opposed to skarn related mineralization at the Nickel Plate Mine. Recent geological data by Ray (1986/1987) have indicated that similar gold environments exist on the south side of the Similkameen River.

Golden Cadillac Resources Ltd. established a grid over the area of the Cap 2 claim during 1983 and 1984, and carried out soil geochemical sampling, magnetic surveying, prospecting and geological mapping over the grid. Nine multi-element soil geochemical anomalies (Ag, Pb, Zn, Cu, Au) and a number of north trending magnetic highs were delineated by the survey. The magnetic highs have been interpreted to be related to the Hedley intrusions, the most important mineralizing unit within the Hedley gold camp.

The work by Golden Cadillac also found one showing, named the Rodgers showing. Calc-silicate, "skarn" mineralization was found at two locations, with anomalous zinc (1.18%), lead (210 ppm), copper (1180 ppm) and silver (9.1 ppm) values. The highest gold value was 60 ppb.

The 1998 program consisted of extending grid lines south of the Golden Cadillac grid area, as well as reestablishing some grid lines on the Golden Cadillac grid area to confirm and relocate their geochemical and geophysical anomalies. Stream sediment sampling, soil geochemical sampling, magnetic and VLF-EM surveying, prospecting and geological mapping were carried out over the property.

The 1998 work program demonstrated favourable rock units for skarn type mineralization exist on the Cap property. Multi-element soil geochemical anomalies (Ag, Zn, Pb, Cu, As) were delineated, occurring coincidentally with narrow magnetic highs that have been interpreted as Hedley intrusive dykes. Rock sampling at the Rodgers showing confirmed the anomalous zinc, lead, copper and zinc values, and extended the mineralization over a strike length of 100 metres.

The skarn mineralization found on the Cap property to date is related to base metals with weakly anomalous silver. This is different than the gold found with the skarn mineralization at Nickel Plate Mountain, and the tungsten found with the skarn mineralization at Mount Riordan.

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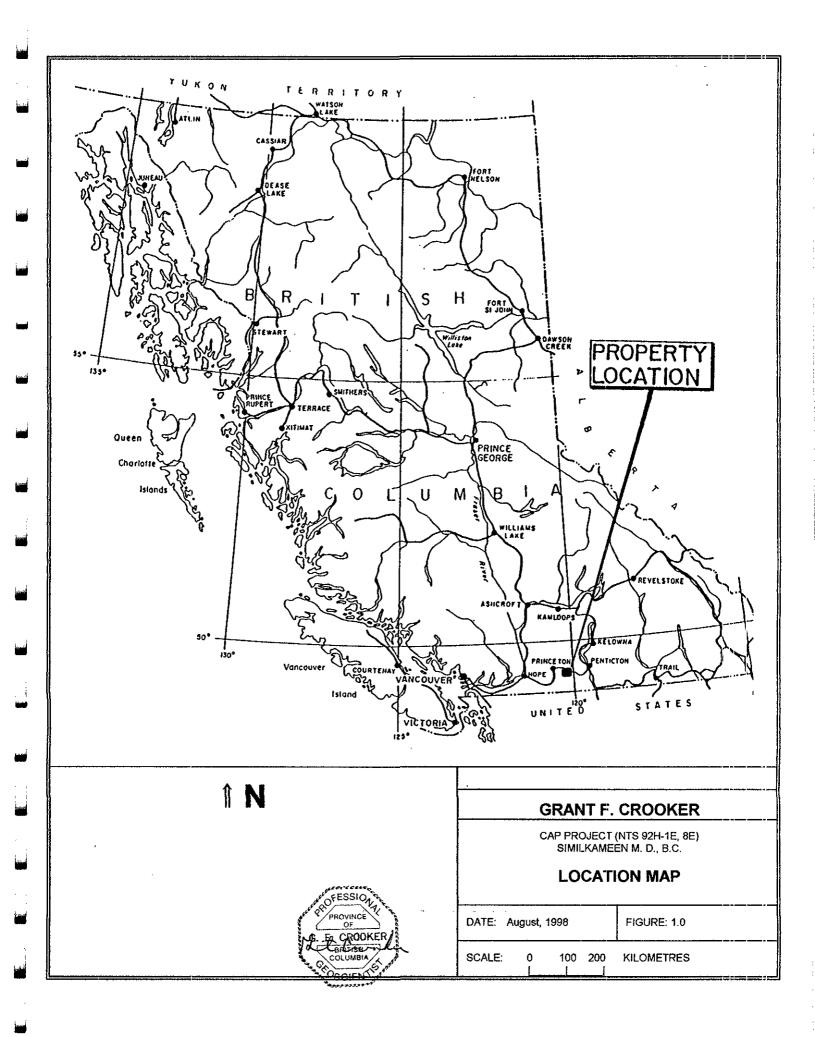
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Four target areas (Targets 1 - 4, Figure 13.0) have been outlined on the Cap property, using a combination of geological, geochemical and geophysical parameters. Additional work is warranted on the property, with the following recommendations:

-complete the grid over the remainder of the property -conduct geological mapping, prospecting, soil sampling and Mag/VLF surveying over the grid -conduct an I.P. survey over the four target areas -conduct trenching over target areas and I.P. anomalies

Respectfully suppritted, PROVINCE CROOKER BRITISH Grant Crooker, P.Geo., Consulting Geologist

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2.0 INTRODUCTION

2.1 GENERAL

Field work was carried out on the Cap claims from September of 1997 through August of 1998. Grant F. Crooker, P.Geo., conducted the exploration program.

The work program consisted of stream sediment sampling, establishing and reestablishing flagged grid lines, magnetic and VLF-EM geophysical surveying, soil geochemical sampling, prospecting, geological mapping and rock sampling.

A \$ 7,500.00 Prospectors Assistance Grant provided the funding for the work program.

2.2 LOCATION AND ACCESS

The property (Figure 1.0) is located 15 kilometres southwest of Hedley in southern British Columbia. It lies between 49° 13' 35" and 49° 15' 45" north latitude and 120° 12' 10" and 120° 14' 20" west longitude (NTS 92H-1E, 8E).

Access to the claims is via Highway 3, turning west onto the Sterling Creek forest access road 8 kilometres west of Hedley and proceeding 18 kilometres to the property boundary. The Sterling Creek road is an all weather, two wheel drive road that passes along the eastern boundary of the property. A number of old roads and cat trails provide access to all areas.

2.3 PHYSIOGRAPHY

The property is located along the eastern edge of the Cascade Mountains. Elevation varies from 1615 to 1920 metres above sea level and topography varies from flat to steep. Outcrop is sparse over much of the property with the best exposures in the creek bottoms, ridges and along road cuts. Pettigrew Creek flows easterly through the central portion of the claims and then flows northerly along the eastern boundary. Pettigrew Creek contains a substantial flow of water all year round.

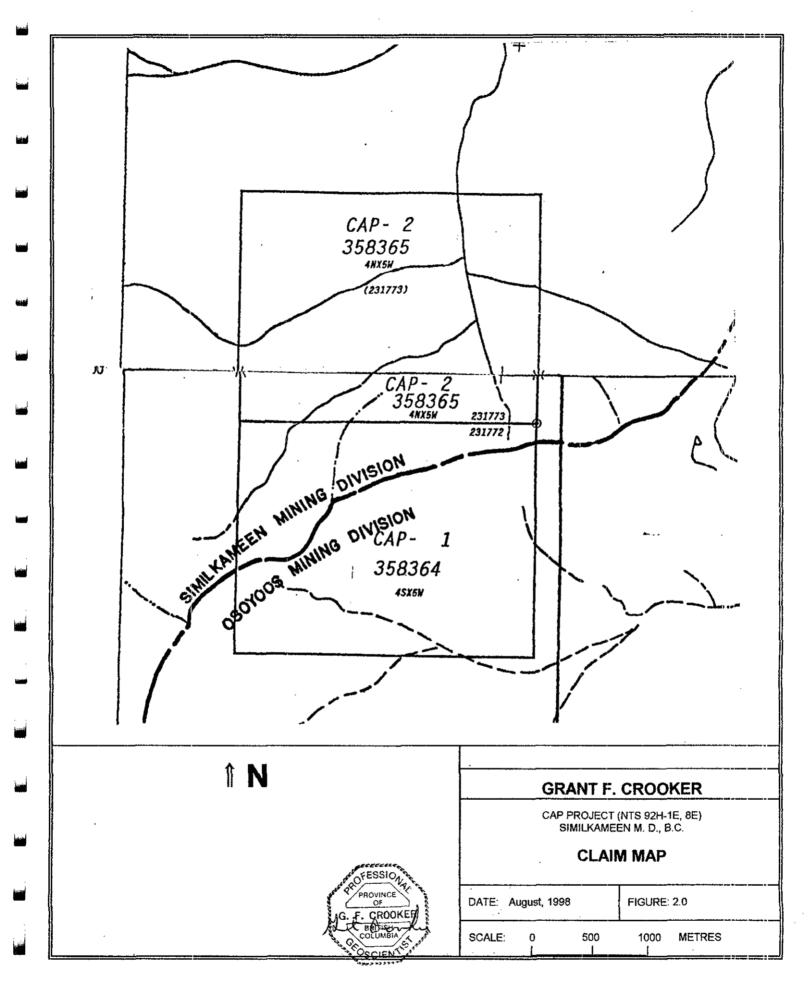
Vegetation consists of a forest cover of pine, fir, spruce and aspen trees. Large areas of the property were clear cut logged 20 or more years ago and many of these areas have been replanted, spaced and pruned. Some areas are covered by dead fall making traversing difficult and slow.

2.4 PROPERTY AND CLAIM STATUS

The Cap claims (Figure 2.0) are owned by Grant Crooker of Box 404, Keremeos, BC. The property consists of two four-post mineral claims covering 40 units in the Similkameen Mining Division.

		TABLE 1.0 - C	TABLE 1.0 - CLAIM DATA		
Claim	Units	Mining Division	Tenure Number	Record Date m/d/y	Expiry Date m/d/y
Cap 1	20	Similkameen	358364	08/08/97	08/08/04*
Cap 2	20	Similkameen	358365	08/09/97	08/09/04*

* Upon acceptance of this report



1.00

2.5 AREA AND PROPERTY HISTORY

Placer mining was first carried out in the Hedley area in the 1860's and 1870's. The interest in placer mining led to the discovery of gold on Nickel Plate Mountain in the 1890's, with the first claims being staked in 1896. Many showings were found within the Hedley Gold Camp, both on Nickel Plate Mountain and the surrounding area. The two major producers in the district were the Nickel Plate and Hedley Mascot mines. Production from the district up to 1986 was approximately 51 million grams (1.6 million ounces). Almost all of this production occurred in the period from 1905 to 1955.

In the 1970's exploration renewed in the Hedley district. Most of the activity concentrated on properties on Nickel Plate Mountain, however exploration was carried out on the south side of the Similkameen River.

The most important property in the camp is the Nickel Plate Mine (Homestake Mining). The gold mineralization is skarn hosted and ore reserves in 1987 were in the order of 9,900,000 tons grading 0.088 ounces gold per ton. The property commenced production in August 1987 with a milling rate of 2,700 tons per day using open pit mining methods. The mine ceased production in July of 1996.

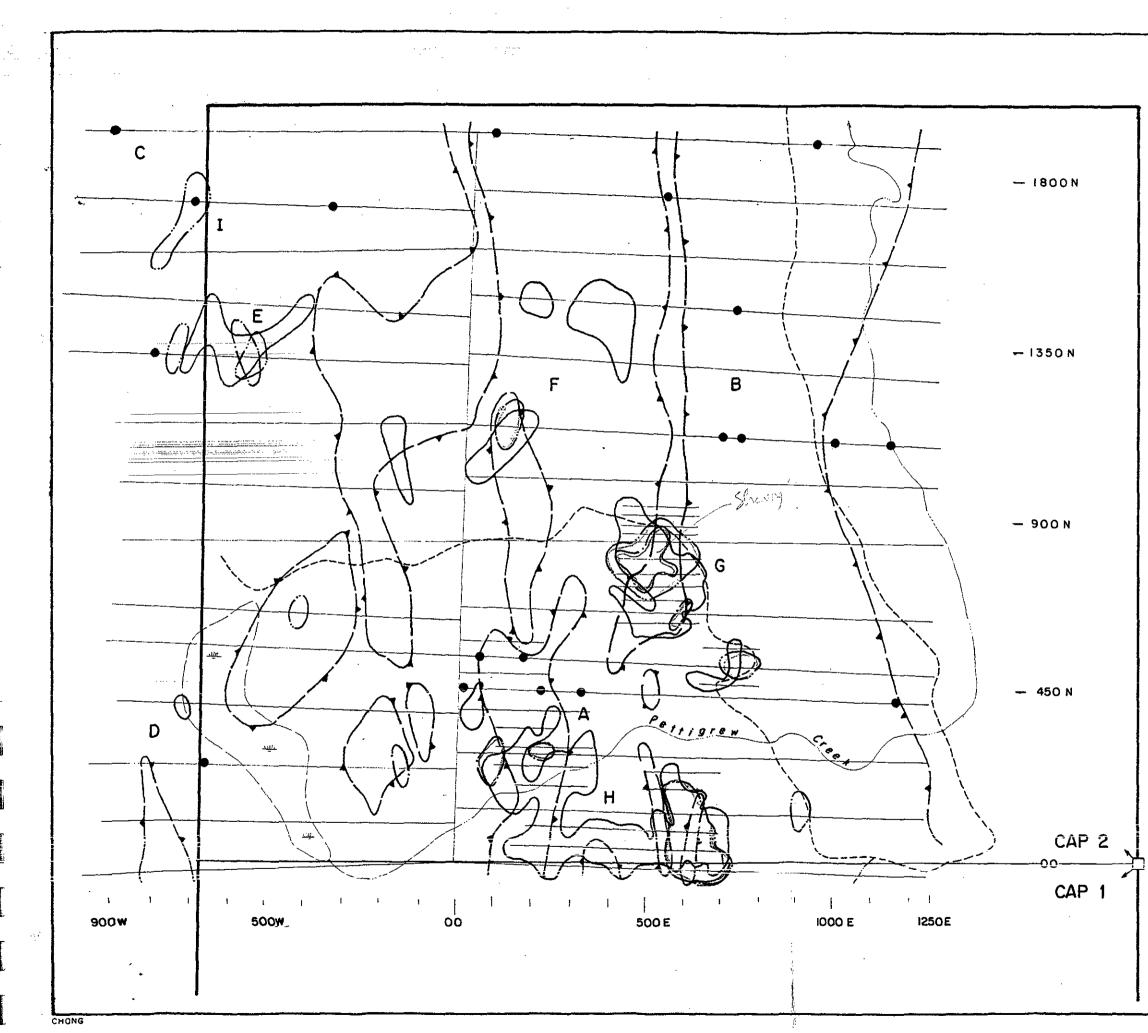
A number of gold properties are located on the south side of the Similkameen River, as is the Cap property. Properties on the south side of the Similkameen River have been traditionally thought of as related to quartzcarbonate vein systems and associated shear zones, as opposed to skarn-related mineralization at the Nickel Plate Mine. Recent geological data by Ray (1986/87) have indicated that similar gold environments exist on the south side of the Similkameen River.

The area covered by the Cap 2 mineral claim was formerly covered by the Rodgers 2 mineral claim (20 units). Golden Cadillac Resources Ltd. carried out exploration programs on the Rodgers 2 mineral claim in 1983 and 1984. A compilation of this work is presented on Figure 3.0. The 1983 work program consisted of establishing a north-south baseline through the centre of the claim and establishing cross lines at 150 metre intervals. Stations were established every 25 metres along the grid lines and magnetic surveying, soil geochemical sampling and geological mapping were carried out over the grid. Magnetic readings were taken every 25 metres (32.9 kilometres), with soil samples (636) collected every 50 metres. The soil samples were analysed for gold, lead, zinc, silver and copper.

The magnetic survey (Figure 3.0) indicated three long, narrow magnetic highs striking northerly across the property. Golden Cadillac interpreted these magnetic highs to be caused by basalt or andesite flows within the Nicola volcanic rocks. The 1998 work program indicates these magnetic highs are related to dykes that have been interpreted to be related to the Hedley intrusive suite.

The background and anomalous soil geochemical values were determined by statistical methods and are shown in Table 2.0.

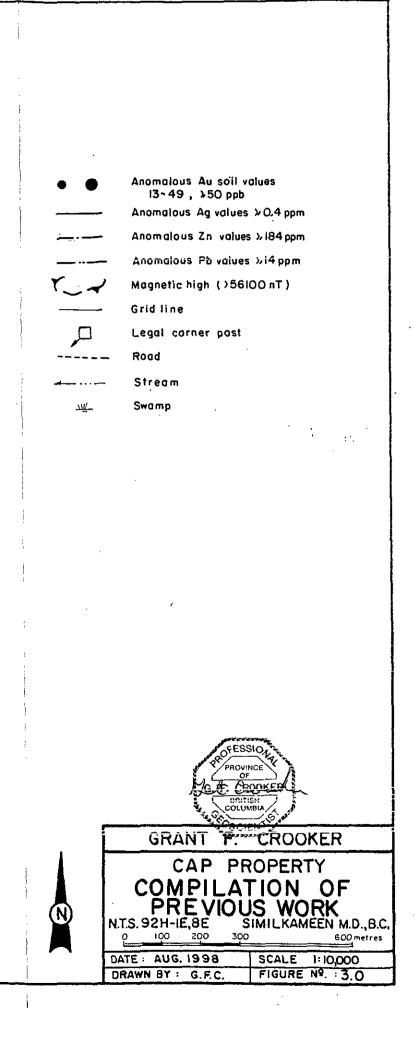
ELEMENTS	VALU	ES		_ ·····
		RANGE	BACKGROUND	ANOMALOUS
NU	ppb	<5 - 90	5	13
	ppm	<0.1 - 1.0	0.1	0.4
u u	ppm	3 - 78	16	41
0	ppm	1 - 337	7	14
in line line line line line line line li	ppm	9 - 780	66	184



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Nine soil geochemical anomalies (labelled "A" through "I", Figure 3.0) were considered significant. The soil geochemical anomalies consisted of as few as one or two values. Gold values were generally low and sporadic, and clid not correlate with the silver, lead, zinc or copper values. A brief description of each anomaly is given below. The anomalous values are arranged according to which element is most dominant and arranged in decreasing order of abundance.

A: Anomaly A covers an area 600 metres by 200 metres. The northern portion of the anomaly consists of five anomalous gold values ranging from 15 to 35 ppb with no other anomalous elements. The southern portion of the anomaly consists of scattered anomalous silver, lead and zinc values. The anomaly occurs over and adjacent to a north trending magnetic high within altered sedimentary rocks and is open to the south.

B: Anomaly B covers an area 100 metres by 350 metres and consists of three anomalous gold values ranging from 30 to 40 ppb. One silver value within the area of the anomaly gave a weakly anomalous value of 0.5 ppm. The anomaly occurs 100 to 150 metres down slope from a northerly trending magnetic high, in an area covered by glacial till.

C: Anomaly C consists of a single gold value of 90 ppb, and no other elements are anomalous. The anomaly occurs in an area of sedimentary rocks with thin glacial cover.

D: Anomaly D covers an area 150 metres by 100 metres and consists of a 20 ppb gold value on one line, and an anomalous silver value of 0.7 ppm on the next line to the north. The anomaly occurs on the west side of a swamp and is therefore open to the east. The anomaly is underlain by altered sedimentary rocks and glacial till.

E: Anomaly E covers an area 300 metres by 150 metres and consists of four anomalous silver values. Two lead values and one zinc value are also anomalous. The anomaly is underlain by altered sedimentary rocks.

F: Anomaly F covers an area 600 metres by 500 metres and consists of scattered, moderately anomalous silver values. Lead and zinc values are also weakly anomalous. The anomaly occurs over and adjacent to a northerly trending magnetic high and is underlain by glacial till.

G: Anomaly G covers an area 200 metres by 150 metres and consists of anomalous silver, lead and zinc values. The anomaly occurs over a northerly trending magnetic high and is underlain by altered sedimentary rocks.

H: Anomaly H covers an area approximately 400 metres by 200 metres and is open to the south. The anomaly consists of a large area of anomalous silver values, with a smaller area of anomalous lead and zinc values. This is the most interesting of the soil geochemical anomalies in terms of size and high values. It contains the highest silver (1.0 ppm), zinc (780 ppm) and copper (60 ppm) values. The anomaly is associated with two northerly trending magnetic highs and is underlain by altered sedimentary rocks.

I: Anomaly I covers an area 150 metres square and consists of anomalous lead values with one anomalous gold value of 15 ppb. The area is underlain by a porphyritic body.

During October of 1984 Golden Cadillac Resources conducted a follow-up exploration program on the Rodgers 2 mineral claim. This work consisted of establishing grid lines at 50 metre spacing on soil geochemical anomalies A and H, and 25 metre spacing on anomaly G. Soil samples were collected at 25 metre intervals on all lines, and the samples were analysed for gold, silver, lead, zinc, copper and arsenic.

Geological mapping and rock sampling were also carried out on anomaly G.

The results of the detailed soil geochemical sampling on anomalies A, G and H are discussed below using the same labelling system as the 1983 program.

A: The fill-in soil sampling did not yield any anomalous gold values. The southern portion of the anomaly consists of a broad silver anomaly with scattered zinc and copper values. The anomaly is open to the south.

G: The fill-in up soil sampling gave strongly anomalous lead, zinc and silver values, and minor copper and arsenic values. The prospecting located several small showings of calcsilicate rocks with weakly to moderately anomalous zinc, lead, copper and silver values. Zinc values ranged up to 1.18%. The skarn mineralization did not yield anomalous gold values, but two samples of argiilite with pyrite gave 20 and 60 ppb gold. The skarn mineralization occurs adjacent to a mafic dyke.

H: The fill-in soil sampling gave moderately anomalous silver values over the entire anomaly, with strongly anomalous zinc values in the eastern portion. Copper and arsenic gave a few scattered anomalous values, while gold and lead gave no anomalous values. The anomaly is open to the south.

No additional documented work was found on the Golden Cadillac property. However the 1983 and 1984 work programs gave encouraging results. A number of single and multi-element soil geochemical anomalies were delineated. Silver, arsenic and lead gave the strongest geochemical responses, while gold and copper gave weak geochemical responses. Skarn mineralization was located at anomaly G, with weakly to moderately anomalous zinc, lead, silver and copper values. The skarn mineralisation appears to be related to mafic dykes that are related to the Hedley intrusive suite. These dykes are probably the cause of the northerly trending, relatively narrow magnetic highs.

The Rodgers 2 mineral claim is described under Minfile Number 092H-SE-173.

G.E. Ray et al of the Geological Survey Branch conducted geological mapping in the Hedley District during the period 1985 to 1987 (scale 1:20,000). This fieldwork included the area of the Cap mineral claims and showed this area to be partially underlain by the Stemwinder Formation and Copperfield breccia of the Whistle Formation. This is a unique package of rocks in the upper Pettigrew Creek area that is mainly underlain by Whistle Formation. While the lower portion of the Whistle Formation is considered to be favourable for skarn mineralization, the lower portion of the Stemwinder Formation is considered to be a more favourable host unit. Ray also noted scattered occurrences of skarn in the vicinity of the Cap mineral claims.

3.0 EXPLORATION PROCEDURE

The 1998 work program consisted of establishing grid lines, magnetic and VLF-EM geophysical surveying, soil geochemical sampling, prospecting, geological mapping and rock sampling. The grid established by Golden Cadillac Resources Ltd. In 1983 has been obliterated over the past 15 years and the grid must be reestablished.

3.1 GRID PARAMETERS

-baseline direction north-south -survey lines perpendicular to baseline -survey line separation 25, 100 and 200 metres -survey station spacing 12.5 and 25 metres -stations marked with flagging and metal tags with grid coordinates -survey total - 13.65 kilometres flagged grid lines -declination 21 degrees

3.2 GEOCHEMICAL SURVEY PARAMETERS

-survey line separation 25, 100 and 200 metres -survey station spacing 25 metres

-survey totals - 351 soil samples

- 69 rock samples

- 34 silt samples

-304 soil samples analysed by 32 element ICP and for gold (30 gram pulp)

-34 silt samples analysed by 32 element ICP and for gold (30 gram pulp)

-69 rock samples analysed by 32 element ICP and for gold (30 gram pulp)

-soil sample depth 10 to 25 centimetres

-soil sample taken from brown or orange B horizon

-silt samples collected from active portion of stream

-silt samples sieved to -20 mesh in the field

All samples were sent to Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver BC, V7J 2C1 for analysis. Laboratory technique for silt and soil samples consisted of preparing samples by drying at 95° C and sieving to minus 80 mesh. Rock samples were crushed and split, with one split ring ground to minus 150 mesh. Thirty-two element ICP and gold (fire assay, atomic adsorption finish) analyses were then carried out on all samples.

The silt geochemical data was plotted on Figure 7.0 and the soil geochemical data was plotted on Figures 8.0 (Au, Ag), 9.0 (Pb, Zn) and 10.0 (As, Cu). The rock geochemical data was plotted on Figures 5.0 and 6.0. All certificates of analysis are listed in appendix I.

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3.3 GEOPHYSICAL SURVEY PARAMETERS

3.3.1 TOTAL FIELD MAGNETIC SURVEY

-survey line separation 25, 100 and 200 metres -survey station spacing 12.5 and 25 metres -survey total - 12.8 kilometres -measured total magnetic field in nanoteslas -instrument - Scintrex MP-2 magnetometer -instrument accuracy ± 1 nanotesla -operator faced north for all readings

Readings were taken along the baseline to obtain standard readings for all baseline stations. All loops ran off the baseline were then corrected to these standard values by the straight line method.

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The total field magnetic contours were plotted on Figure 11.0 and the data listed in Appendix II.

3.3.2 VLF-EM SURVEY

-survey line separation 25, 100 and 200 metres -survey station spacing 12.5 and 25 metres -survey total - 11.5 kilometres -transmitting station - Seattle - 24.8 KHz -direction faced - southeasterly -instrument - Geonics EM-16 -in-phase (dip angle) and-out-of-phase (quadrature) components measured in percent

The VLF-EM profiles are plotted on Figure 12.0 and the data listed in Appendix II.

4.0 GEOLOGY AND MINERALIZATION

4.1 REGIONAL GEOLOGY

The Hedley Gold Camp is located within the Intermontane Belt of the Canadian Cordillera. The oldest rocks in the area belong to the Apex Mountain Group and occur in the southeastern part of the camp. The Apex Mountain Group consists of a deformed package of cherts, argillites, greenstones, tuffaceous siltstones and minor limestones. The complex and supercrustal rocks further west are separated by either intrusive rocks or major faults. The area between Winters and Whistle creeks is largely underlain by sedimentary and volcaniclastic rocks of the Upper Triassic Nicola Group and the Lower Cretaceous Spences Bridge Group.

Mapping by Ray and Dawson divides the Nicola Group into three distinct stratigraphic packages. The oldest, the Peachland Creek Formation, comprises massive, mafic quartz-bearing andesitic to basaltic ash tuff and minor chert-pebble conglomerate. This previously unrecognized basal unit is poorly exposed in the Hedley district, but has been identified in several localities. The Peachland Creek Formation is stratigraphically overlain by a 100 to 700 metre thick sedimentary sequence in which a series of east-to-west facies changes are recognized. This sequence progressively thickens westward and the facies changes probably reflect deposition across the tectonically controlled margin of a northwesterly deepening Late Triassic marine basin.

The eastern most and most proximal facies, called the French Mine Formation has a maximum thickness of 150 metres and comprises massive to bedded limestone interlayered with thinner units of calcareous siltstone, chert-pebble conglomerate, tuff, limestone-boulder conglomerate and limestone breccia. This formation hosts the auriferous skarn mineralization at the French and Good Hope mines.

Further west, rocks stratigraphically equivalent to the French Mine Formation are represented by the Hedley Formation that hosts the gold-bearing skarn at the Nickel Plate mine. The Hedley Formation is 400 to 500 metres thick and characterized by thinly bedded, turbiditic calcareous siltstone and units of pure to gritty, massive to bedded limestone that reach 75 metres in thickness and several kilometres in strike length. The formation includes lesser amounts of argillite, conglomerate and bedded tuff; locally the lowermost portion includes minor chert-pebble conglomerate.

The western most, more distal facies is represented by the Stemwinder Formation that is at least 700 metres thick and characterized by a sequence of black, organic-rich, thinly bedded calcareous argillite and turbiditic siltstone, minor amounts of siliceous fine-grained tuff and impure limestone beds. The Stemwinder Formation hosts the gold occurrences at Banbury (vein) and Peggy (skarn).

The sedimentary rocks of the French Mine, Hedley and Stemwinder formations pass stratigraphically upward into the Whistle Formation that is probably Late Triassic in age. The formation is 700 to 1200 metres thick and distinguishable from the underlying rocks by a general lack of limestone and a predominance of andesitic volcaniclastic material. The Whistle Formation is host to the Canty (skarn and stock work) and Banbury/Gold Hill (vein) gold occurrences.

The base of the VVhistle Formation is marked by the Copperfield breccia, a limestone-boulder conglomerate that forms the most distinctive and important stratigraphic marker horizon in the district. The breccia is well 'developed west of Hedley where it forms a northerly trending, steeply dipping unit that is traceable for over 15 kilometres along strike. The same breccia outcrops in small areas within up faulted slices along Pettigrew Creek to the south, and as outliers near Nickel Plate and Lookout Mountain to the east.

The Whistle Formation is overlain by volcaniclastic rocks that may belong to the Early Cretaceous Spences Bridge Group. These rocks are not recognized as being gold bearing in the district. Three suites of plutonic rocks are recognized in the area. The oldest, the Hedley intrusions is probably Early Jurassic in age and is economically important. It forms major stocks up to 1.5 kilometres in diameter and swarms of thin sills and dykes up to 200 metres in thickness and over 1 kilometre in length. The sills and dykes are coarse-grained and massive diorites and quartz diorites with minor gabbro, while the stocks range from gabbro through granodiorite to quartz monzonite. When unaltered they are dark coloured, commonly contain minor disseminations of pyrite and pyrrhotite and are often rusty weathered. In contrast, the skarn-altered diorite intrusions are usually pale coloured and bleached.

The Hedley intrusive suite intrudes the Upper Triassic rocks over a broad area. Varying degrees of sulphide bearing calcic skarn alteration are developed within and adjacent to many of these intrusions, particularly the dykes and sills. This plutonic suite is genetically related to the skarn-hosted gold mineralization in the district including that at the Nickel Plate, Hedley Mascot, French and Good Hope mines, and gold occurrences at Banbury, Gold Hill, Peggy and Canty. The Hedley intrusive suite consists of four stocks known as Toronto, Stemwinder, Banbury and Pettigrew.

The second plutonic suite is the Early Jurassic? Similkameen intrusions that comprises coarse-grained, massive, biotite homblende granodiorite to quartz monzodiorite. It generally forms large bodies, for example, the Bromley batholith, and Cahill Creek pluton that separates the Nicola Group rocks from the highly deformed Apex Mountain complex.

The third and youngest intrusive suite includes two rock types that are possibly coeval and related to the formation of the dacitic volcaniclastic rocks within the Spences Bridge Group. One of these, the Verde Creek stock comprises a fine to medium grained, massive leucocratic microgranite that contains minor biotite. The other type is represented by fine-grained, leucocratic, felsic quartz porphyry.

4.2 HEDLEY DISTRICT GOLD DEPOSITS

The gold occurrences and deposits within the Hedley area are spatially associated with dioritic bodies of the Hedley intrusions. The gold mineralization can be broadly divided into skarn-related and vein-related types.

The skam-related mineralization is the most widespread and economically important, and is characterized by the gold being intimately associated with variable quantities of sulphide bearing garnet-pyroxenecarbonate skarn alteration. The gold tends to be associated with sulphides, particularly arsenopyrite, pyrrhotite and chalcopyrite, and in lesser amounts with pyrite, gersdorffite (NiAsS), sphalerite, magnetite and cobalt minerals. Trace minerals include galena, native bismuth, electrum, tetrahedrite and molybdenite. This type of mineralization is found at the Nickel Plate, French, Good Hope, Peggy and Canty deposits.

Geochemical studies by Ray (1987) based on analyses of over 300 samples from various ore zones in the Nickel Plate deposits, showed the following correlation coefficients:

High		Mediun	n	Low	
Au:Bi	0.84	Au:Co	0.58	Au:Cu	0.17
Ag:Cu	0.84	Au:As	0:46		
Bi:Co	0.62	Au:Ag	0.46		

Ray states that the strong positive correlation between gold and bismuth reflects the close association of native gold with hedleytite, while the moderate positive correlation between gold, cobalt and arsenic confirms observed association of gold, arsenopyrite and gersdorffite. The high positive correlation between silver and copper may indicate that some silver occurs as a lattice constituent in the chalcopyrite and/or in association with tetrahedrite (Cu-Sb sulphide often contains Zn, Pd, Hg, Co, Ni and Ag replacing Cu). The gold and silver values are relatively independent of each other despite the presence of electrum, and there is generally a low correlation between gold and copper.

TABLE 3.0 HEDLEY DISTRICT GEOLOGICAL HISTORY (After Ray et al)

1.0 BASIN GEOLOGICAL DEVELOPMENT

- 1.1 Deposition of Triassic mafic extrusive rocks of the Peachland Creek Formation.
- 1.2 Late Triassic deposition of the Hedley and French Mine and Stemwinder formations (sedimentary rocks with calcareous units).
- 1.3 Sudden collapse of the basin resulting in the widespread deposition of the Whistle Formation (volcanic rocks with tuffaceous units) and the deposition of the Copperfield limestone conglomerate and breccia along the sedimentary basin margins.

2.0 GOLD MINERALIZING EVENTS

- 2.1 Following lithification of the Nicola Group rocks, two distinct phases of folding took place that are related to mineralization.
- 2.2 Phase one resulted in a major, north-northeasterly striking, easterly overturned asymmetric anticline which is the dominant structure in the Hedley district. The largest of these is the Cahill Creek fracture zone and Bradshaw fault.
- 2.3 Phase two is economically important as it took place during the emplacement of the Hedley intrusions and partly controlled the late-magmatic auriferous skarn mineralization. It produced the small-scale northwesterly striking, gently plunging fold structures that are an ore control at the Nickel Plate mine. They also controlled the emplacement of the Hedley intrusive dykes and the Banbury, Stemwinder, Toronto and Pettigrew stocks.

3.0 POST MINERALIZING EVENTS

- 3.1 Emplacement of the Hedley intrusions was shortly followed by intrusion of the Cahill Creek pluton.
- 3.2 Deposition of the Early Cretaceous Spences Bridge Group and related quartz porphyries followed a period of uplift and erosion.
- 3.3 Post-Early Cretaceous phase of regional thrust faulting.
- 3.4 Re-activation of the Bradshaw fault and Cahill Creek fracture zone, as well as some faulting along Whistle and Pettigrew creeks occurred in more recent geological time.

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The skarn-related mineralization is generally stratabound and follows calcareous tuffs, thinly-bedded limestones and limey argillites within the upper portions of the French Mine and Hedley formations and lower portions of the Stemwinder and Whistle formations. Swarms of diorite sills and dykes of the Hedley intrusions have intruded the favourable beds and altered them by contact hydrothermal contact to hornfels. Both the intrusions and sediments were subsequently overprinted with the skarn alteration.

The vein-related mineralization is characterized by gold and sulphides hosted in higher level, fracture-filled quartz-carbonate vein and stock work systems. This type of mineralization occurs at the Banbury and Gold Hill properties.

Table 3.0 after Ray et al summarizes the geological history of the Hedley District.

4.3 CLAIM GEOLOGY

The area of the Cap claims was mapped by Ray and Dawson of the Geological Survey Branch during the 1980's and the geology displayed in Bulletin 87, The Geology and Mineral Deposits of the Hedley Gold Skarn District, Southern British Columbia (January 1994). This geology is displayed on Figure 4.0. Geological mapping carried out during the 1998 field program is displayed on Figures 5.0 and 6.0. The rock units and nomenclature of Ray have been used to provide continuity of information.

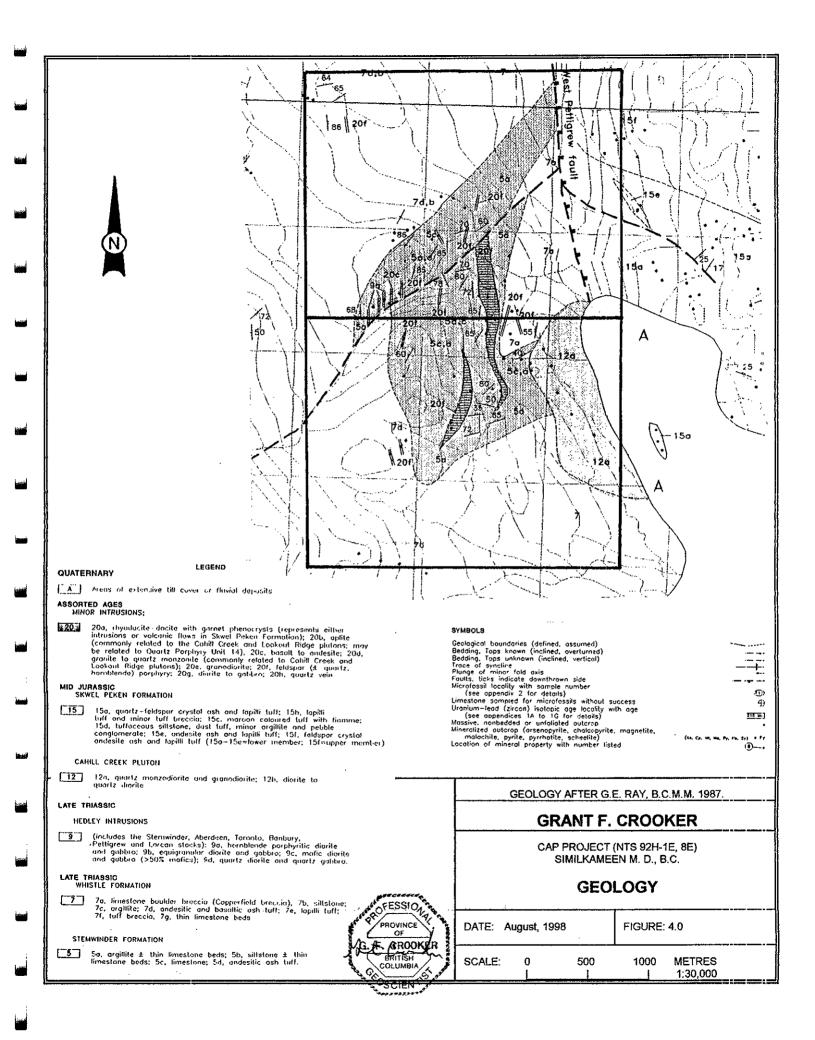
The area mapped by the 1998 work program shows sedimentary rocks of the Stemwinder Formation to be the oldest on the property. This unit (Unit 5) occurs in the western portion of the grid area and consists of argillite (Unit 5a) and limestone (Unit 5c). The basal unit of the Whistle Formation, the Copperfield breccia (Unit 7a), lies to the east of the Stemwinder Formation. Numerous mafic dykes of the Hedley intrusions (Unit 9a) intrude the sedimentary rocks. A small stock of quartz diorite of the Cahill Creek Pluton (Unit 12a) intrudes the Whistle Formation along the eastern boundary of the claims. Dykes of feldspar porphyry (Unit 20f) intrude the older units. The structural relationships of the various sedimentary units are not known at this time. A brief description of each rock unit is given below.

Unit 5 (Stemwinder Formation): The oldest unit consists of sedimentary rocks of the Stemwinder Formation that have been divided into argillite (Unit 5a) and limestone (Unit 5c). The argillite is generally black, thinly bedded and fractured with pyrite occurring along the fractures. Weathered surfaces are usually rusty due to weathering of the pyrite. The limestone is generally light blue in colour and forms beds from a few metres to 100 metres in thickness. In many locations the argillite and limestone form narrow, alternating interbeds a few centimetres thick.

Unit 7 (Whistle Formation): The Copperfield breccia (Unit 7a) forms the basal unit of the Whistle Formation and marks the boundary of the Stemwinder and Whistle sequences. This unit varies from clast to matrix supported and is composed of rounded to angular limestone clasts up to 1 metre in width.

Unit 9 (Hedley Intrusions): The Hedley intrusions (Unit 9a) occur as dykes and/or sills in a number of areas of the property. They generally have a north-south strike, are within a few degrees of vertical and vary from less than 1 metre to 25 metres in width. In several locations the dykes occur as a swarm over 25 to 100 metres. They are generally fine grained, dark coloured and of dioritic or gabbroic composition. Fine grained, black hornblende laths occur within a light coloured feldspar matrix.

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Unit 12 (Cahill Creek Pluton): The Cahill Creek Pluton (Unit 12a) is a medium grained biotite<u>+</u>homblende granodiorite. Numerous narrow, irregular dykes and sills cut the country rock adjacent to the intrusion. The dykes and sills are generally less than 10 metres in width.

Unit 20 (Feldspar porphyry): The feldspar porphyry (Unit 20f) occurs as dykes over most of the property. Feldspar phenocrysts up to 1 centimetre in diameter occur in a fine grained, white or grey matrix with varying amounts of hornblende and quartz. The dykes generally strike north-south and vary from 1 metre to 25 metres in width.

4.4 MINERALIZATION

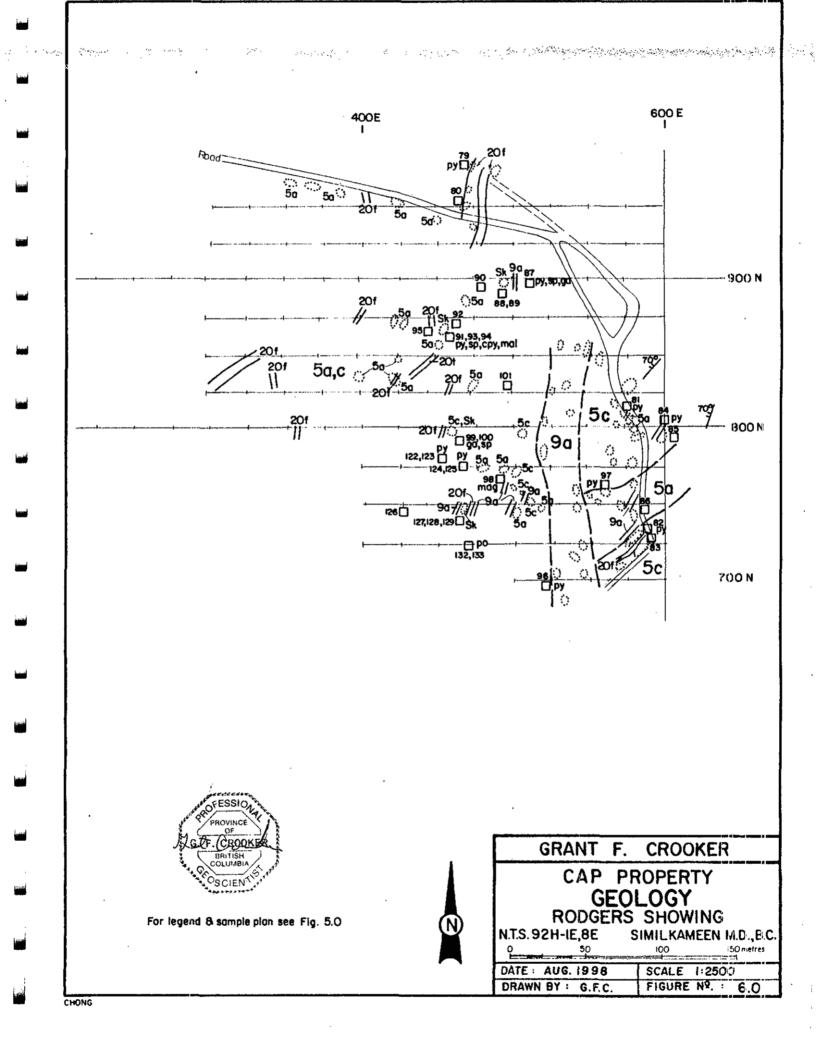
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Sixty-nine rock samples were collected from various areas of the property during the 1998 work program. The most significant mineralization found to date is at the Rodgers showing (Figures 5.0 and 6.0), where two rubbly outcrops of calc-silicate skarn, limestone and calcite give strongly anomalous lead and zinc values, and weakly anomalous copper and silver values. The two largest outcrops are located at 900N and 510E and 865N and 470E, with scattered skarn float found as far south as 800N and 450E. To date the mineralization has been traced over a strike length of 100 metres, with the zone open to the north and south where it is covered by overburden. The Rogers showing is spatially related to a 25 metre wide dyke of Hedley intrusive that outcrops 25 to 50 metres east of the showing. Narrow dykes of Hedley intrusive also occur closer to the showing.

Varying concentrations of pyrite, sphalerite, galena, chalcopyrite and malachite occur as disseminations and along fractures with fine grained brown garnets in an indistinct grey and green, calc-silicate ground mass. A select sample of the material (sample 093) gave 1.57% zinc, 760 ppm lead, 879 ppm copper and 8.8 ppm silver. A number of other samples (088 - 091, 094, 095, 099-101) gave weakly to strongly anomalous zinc, lead, copper and silver values. Gold is not anomalous in any of the samples. The skarn mineralization at the Rodgers showing is anomalous in base metals, as opposed to that at Nickel Plate Mountain which is a gold skarn.

A number of rock samples of irregularly shaped, pyritic, silicified and/or homfels altered zones in Copperfield breccia were collected. Three of the samples (109, 136, 138) gave weakly anomalous gold values ranging from 50 to 70 ppb, and weakly anomalous silver values ranging from 1.8 to 3.0 ppm. A number of other samples gave weakly anomalous silver values ranging from 1.0 to 2.2 ppm, and weakly anomalous zinc values ranging from 250 to 458 ppm. This mineralization is spatially related to the Cahill Creek Pluton that intrudes the Copperfield breccia from the east.

(Four rock samples 102 - 105) were collected from the area of coincidental silver, zinc and copper soil geochemical anomalies between 050S and 150S at 650E. These samples of weakly silicified limestone and/or hornfelsed argillite gave weakly anomalous silver (1.2 - 1.4 ppm), copper (73 - 106 ppm) and zinc values (220 - 698 ppm). The soil geochemical anomaly is related to a magnetic high, interpreted to be a Hedley intrusive dyke, that intrudes narrow interbeds of argillite and limestone.



5.0 GEOCHEMISTRY

5.1 SILT GEOCHEMISTRY

Thirty-four stream sediment samples were collected from the major and minor drainages on the Cap property. The sample locations are shown on Figure 7.0, along with the geochemical results for gold, arsenic and zinc. Background and anomalous values are shown in Table 4.0.

ELEMENTS	VALUES			
		RANGE	BACKGROUND	ANOMALOUS
Au	ppb	<5 - 100	5	15
Ag	ppm	<0.2 - 0.2	0.2	0.4
Cu	ppm	4 - 25	11	17
As	ppm	<2 - 26	8	12
Pb	ppm	<2 - 50	5	8
Zn	ppm	24 - 106	59	88

Three of the samples gave weakly to moderately anomalous gold values (06 - 90 ppb, 07 - 100 ppb and 62 - 15 ppb). The three samples were all collected from the central portion of the Cap 2 claim, although they are from separate drainages. Samples 06 and 62 were taken from minor drainages while 07 was taken from Pettigrew Creek. This area is covered by thick accumulations of overburden and no cause is evident for the anomalous samples.

Five of the samples (01, 05, 76 - 78) collected from the upper reaches of Pettigrew Creek gave weakly anomalous arsenic and zinc values. This anomaly appears to be caused by the known showing and soil geochemical anomalies on the property.

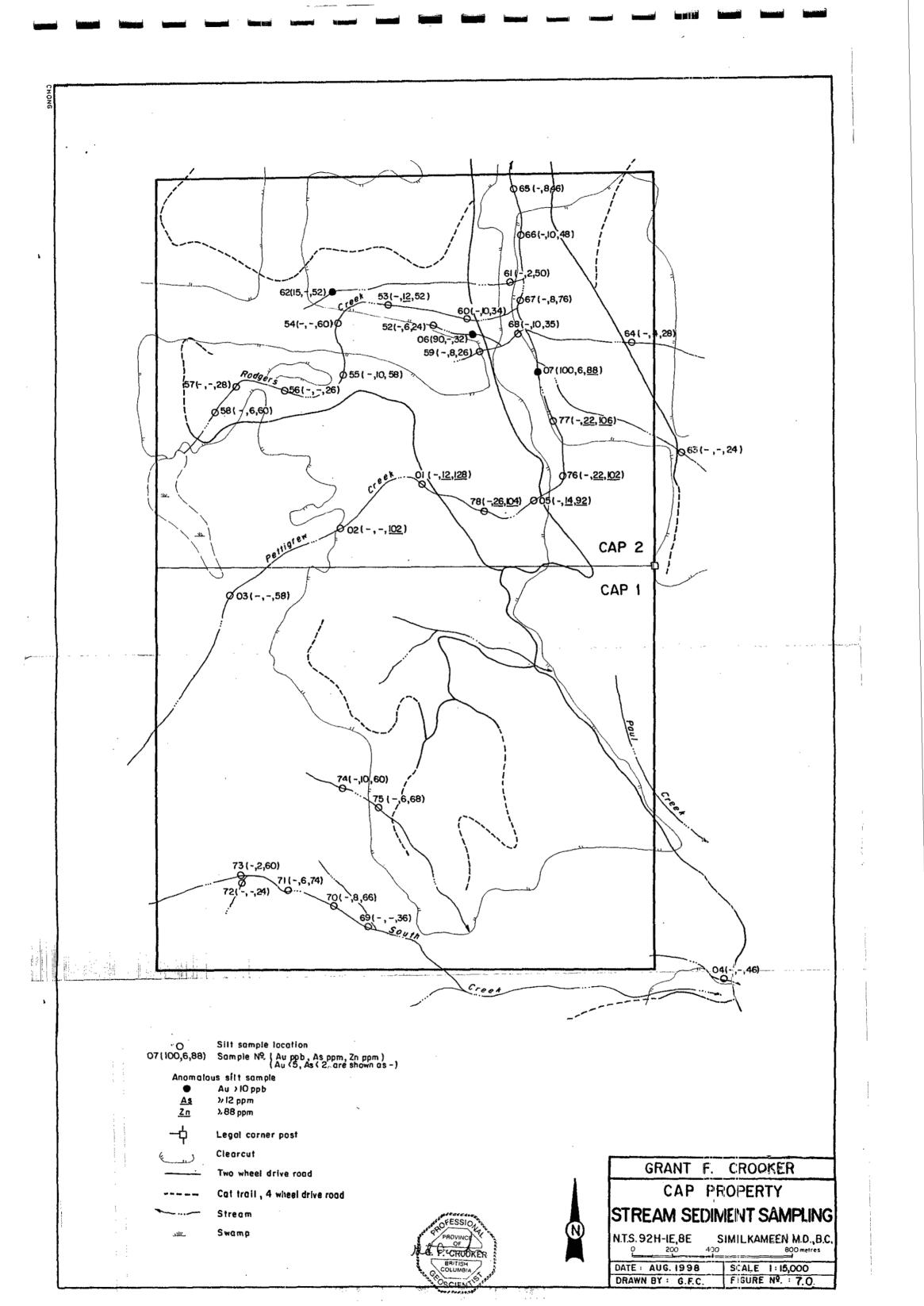
5.2 SOIL GEOCHEMISTRY

Background and anomalous values are given in Table 5.0.

ELEMENTS	VALUES						
		RANGE	BACKGROUND	ANOMALOUS			
Au	dqq	<5 - 80	5	15			
Ag	ppm	<0.2 -2.0	0.2	0.4			
Cu	ppm	2 - 105	16	24			
As	ppm	<2 - 158	8	24 12			
Pb	ppm	<2 - 80	9.5	14			
Zn	ppm	42 - 1225	163	243			

Gold

Gold values ranged from <5 to 80 ppb (Figure 8.0) with background established at 5 ppb and anomalous values 15 ppb and greater. No broad gold soil geochemical anomalies were outlined by the survey. The highest gold values were single station anomalies at line 200S and 1025E (80 ppb) and line 100N and 675E (55 ppb). Clustering of gold values in the 10 to 20 ppb range occur at several locations on the grid.



Silver

Silver values ranged from <0.2 to 2.0 ppm (Figure 8.0) with background established at 0.2 ppm and anomalous values 0.4 ppm and greater. Four weak to moderate soil geochemical anomalies were outlined.

Anomaly Ag-1 is a strong, two sample anomaly occurring on line 900N at 475E and 500E. The value of 2.0 ppm was the highest value from the survey. The anomaly is located near the Rodgers showing and coincidental zinc and lead occur with the silver anomaly. A Hedley dyke (expressed magnetically by magnetic high E) occurs immediately east of the anomaly.

Anomaly Ag-2 consists of three small, weak to moderate anomalies occurring on line 100S between 950E and 1200E and line 200S between 950E and 1025E. Gold shows a clustering of 10 ppb values with one value of 80 ppb, but no other elements are anomalous.

Anomaly Ag-3 is a weak, five sample anomaly occurring on line 100S at 775E and line 200S between 750E and 825E. Gold shows a clustering on 10 to 15 ppb values, and arsenic is also weakly anomalous.

Anomaly Ag-4 is a weak to moderate anomaly extending from line 100S between 575E and 700E to line 400S at 625E. Zinc and copper are coincidentally anomalous with the silver. Northerly trending magnetic highs B and C that have been interpreted to be Hedley dykes occur coincidentally with the multi-element soil geochemical anomaly.

Lead

Lead values ranged from <2 to 50 ppm (Figure 9.0) with background established at 9.4 ppm and anomalous values 14 ppm and greater. Four weak to moderate soil geochemical anomalies were outlined.

Anomaly Pb-1 is a weak to moderate anomaly extending from line 900N and 500E to line 775N and 450E. The anomaly is the soil geochemical expression of the Rodgers showing and is associated with a Hedley dyke. Moderately anomalous silver and zinc occur coincidentally with the lead.

Anomaly Pb-2 is a moderate, three sample anomaly extending from line 100N between 950E and 975E to line 100S at 950E. Silver is coincidentally weakly to moderately anomalous at the south end of the anomaly.

Anomaly Pb-3 is a weak anomaly extending from line 300N at 525E to line 100N between 400E and 500E. No other elements are coincidentally anomalous with the lead, but three magnetic highs that have been interpreted to be Hedley dykes are associated with the anomaly.

Anomaly Pb-4 is a weak anomaly on line 300N between 000E and 225E. The anomaly is associated with a swarm of Hedley dykes that are expressed magnetically by magnetic high A. Silver, zinc, copper and arsenic are coincidentally anomalous with the lead.

Zinc

Zinc values ranged from 42 to 1225 ppm (Figure 9.0) with background established at 163 ppm and anomalous values 243 ppm and greater. Three, weak to moderate soil geochemical anomalies were outlined.

Anomaly Zn-1 is a moderate, three sample anomaly extending from line 900N at 500E to line 800N between 475E and 500E. The anomaly is the soil geochemical expression of the Rodgers showing and is associated with a Hedley dyke. Moderately anomalous silver and lead occur coincidentally with the zinc.

Anomaly Zn-2 is a weak to strong anomaly extending from line 100S between 575E and 675E to line 400S between 675E and 700E. The highest zinc value of 1225 ppm occurs within this anomaly. Silver and copper are coincidentally anomalous with zinc. Northerly trending magnetic highs B and C that have been interpreted to be Hedley dykes occur coincidentally with the multi-element soil geochemical anomaly.

Anomaly Zn-3 is a weak to moderate anomaly on line 300N between 000E and 225E. Silver, lead copper and arsenic are coincidentally anomalous with the zinc. The multi-element anomaly is associated with a swarm of Hedley dykes that are expressed magnetically by magnetic high A.

Arsenic

Arsenic values ranged from <2 to 158 ppm (Figure 10.0) with background established at 8 ppm and anomalous values 12 ppm and greater. Two weak to moderate soil geochemical values were outlined.

Anomaly As-1 is a weak, three sample anomaly extending from line 200S between 750E and 775E to line 300S at 800E. Gold shows a clustering of 10 to 15 ppb values, and silver is also weakly anomalous.

Anomaly As-2 is a weak to moderate anomaly extending from line 300N between 075E and 250E to line 100N between 075E and 175E. The anomaly is associated with a swarm of Hedley dykes that are expressed magnetically by magnetic high A. Silver, lead, zinc and copper are coincidentally anomalous with arsenic on line 300N, and copper is coincidentally anomalous with arsenic on line 100N.

Copper

Copper values ranged from 2 to 105 ppm (Figure 10.0) with background established at 16 ppm and anomalous values 24 ppm and greater. Two weak soil geochemical values were outlined.

Anomaly Cu-1 is a weak anomaly extending from line 100N between 550E and 650E to line 100S between 625E and 675E. Silver and zinc are coincidentally anomalous with the copper. Northerly trending magnetic highs B and C that have been interpreted to be Hedley dykes occur coincidentally with the multi-element soil geochemical anomaly.

Anomaly Cu-2 is a weak anomaly extending from line 300N between 050E and 250E to line 100N between 100E and 200E. Silver, lead, zinc and silver are coincidentally anomalous with copper on line 300N, and arsenic is coincidentally anomalous with copper on line 100N. The anomaly is associated with a swarm of Hedley dykes that are expressed magnetically by magnetic high A.

6.0 GEOPHYSICS

6.1 MAGNETIC SURVEY

A total of 12.8 kilometres of total field magnetic survey was carried out over the grid during 1998. Survey lines were spaced at 25, 100 and 200 metre intervals, with station spacing at 12.5 and 25 metre intervals. Total field magnetic contours are displayed on Figure 11.0, with significant magnetic features labelled on Figure 13.0.

The magnetic data can generally be divided into two zones of magnetism. The first is a zone of background magnetism with values ranging from 55,900 nT to 56,100 nT that covers the majority of the grid area. Rocks under laying these areas are believed to be intrusive rocks of the Cahill intrusion, as well as sedimentary rocks of the Stemwinder and Whistle formations.

The second zone of magnetism consists of magnetic highs with values ranging from 56,100 nT to 57,500 nT. The zones of high magnetism have two modes of occurrence, the first consists of a broad magnetic high labelled MH-E on Figure 13.0. The second consists of narrow, linear, northerly trending magnetic highs, the largest of which are labelled MH-A through MH-D on Figure 13.0.

The broad magnetic high labelled MH-E occurs in an area covered by a thick accumulation of glacial till cover and no cause is obvious for the magnetic high. It may be caused by volcanic rocks of the Skwel Peken Formation that have been mapped to the east of Pettigrew Creek. There is also a possibility that a small stock of Hedley intrusive rocks may be causing the magnetic high.

The four most prominent of the narrow, linear, northerly trending magnetic highs have been labelled MH-A through MH-D. Geological mapping has shown MH-A and MH-B to be caused by mafic dykes of the Hedley intrusive suite, and all of the magnetic highs have been interpreted to be caused by Hedley dykes.

Magnetic high MH-A has a strike length of 700 metres (from line 400S between 125E and 325E to line 300N between 100E and 200E) and varies in width from 100 to 200 metres. The same magnetic high probably extends to lines 800N and 900N, and is open to the north and south. It also occurs coincidentally with lead, zinc, copper and arsenic soil geochemical anomalies on lines 100N and 300N. A swarm of Hedley dykes have been mapped within the magnetic high and appear to be the causing the magnetic high.

Magnetic high MH-B has a strike length of 500 metres (from line 400S between 500E and 550E to line 100N at 525E) and varies in width from 25 metres to 75 metres. This magnetic high occurs along the east flank of coincidental silver, zinc and copper soil geochemical anomalies. Outcrop is sparse over the anomaly, but several narrow Hedley dykes were mapped within the magnetic high.

Magnetic high MH-C has a strike length of 450 metres (from line 200S between 625E and 650E to line 100N between 600E and 625E) and varies in width from 25 to 50 metres. Coincidental silver, zinc and copper soil geochemical anomalies occur over the magnetic high. Outcrop is sparse over the anomaly, but several narrow Hedley dykes were mapped within the magnetic high.

Magnetic high MH-D has a strike length of 150 metres (from line 800N between 525E and 550E to line 950E between 500E and 575E) and varies in width from 25 to 75 metres. The magnetic high is open to the north and south. Coincidental silver, lead and zinc soil geochemical anomalies occur along the western flank of the magnetic high, as does the Rodgers showing. A 25 metre wide Hedley dyke underlies the magnetic high and appears to be the cause of the anomaly.

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6.2 VLF-EM SURVEY

A total of 11.5 kilometres of VLF-EM survey was carried out over the grid during 1998. Survey lines were spaced at 25, 100 and 200 metre intervals with station spacing at 12.5 and 25 metre intervals. VLF-EM profiles show a weak to strong response to conductivity as displayed on Figure 12.0. Topographic bias, due to up and down slope VLF instrument orientation is minimal on the survey grid. Topographic bias in rugged terrain can produce profile that resemble real conductors although they are usually broad and follow topographic contours.

A number of north to northeast trending conductors were delineated by the survey. The five most significant conductor systems have been labelled A through E on Figures 12.0 and 13.0.

Conductor system A is a moderate, northeast trending conductor system that extends from line 800N and 425E to 950N and 575E. No cause is apparent for the conductor, although it passes some 25 metres east of the Rodgers showing.

Conductor system B is a weak to moderate, northeast trending conductor system that extends from line 800N and 350E to line 925N at 400E. The conductor occurs coincidentally with a weak magnetic high and may be related to a Hedley dyke.

Conductor system C is a moderate to strong, northeast trending conductor system that extends from line 400S and 925E to line 100S and 1075E. The conductor approximates the mapped contact on the Cahill intrusion and Copperfield breccia, and may represent the change in rock type.

Conductor system D is a moderate to strong, north to northeasterly trending conductor system that extends from line 400S and 400E to line 300N and 675E. The conductor cuts across several magnetic highs and coincidental silver, zinc and copper soil geochemical anomalies occur along part of the conductor system. No cause is apparent for the conductor.

Conductor system E is a weak, north trending conductor system that extends from line 100N and 100E to line 300N and 100E. The conductor occurs along the western flank of magnetic high MH-E and occurs coincidentally with lead, zinc. copper and arsenic soil geochemical anomalies. The conductor appears to be delineating a swarm of Hedley dykes.

7.0 EXPLORATION TARGET AREAS

The development of the exploration target areas on the Cap property is an incorporation of geological, geochemical and geophysical data. Four exploration target areas have been developed (Figure 13.0) and classified in Table 6.0.

			TAI	BLE 6	5.0 - EXPLOR	ATIC	DN TAR	GET ARE	AS				
TAF	GETS			EXPL	ORATION INDICA	TOR	S			EXP	LORA	TION EVA	LUATION
ID AREA (KM²)	GEOLOGY	GEOCHEMISTRY				GEOPHYSICS		PROGRAM		RATING	PRIORITY		
	(KUVI*)		SILTS		SOILS	ROCKS		RESPONSE		STAGEI			
T-1	0175	Stemwinder Fm Hedley Intrusive			Au: W Ag: M Pb, Zn: S	Au: N Ag: W - M Zn, Pb: S				G, GC, IP, TR	GP,	High	First
T-2	0.385	Copperfield Bx Sternwinder Fm Cahill Pluton	Au: N Ag: N As, Zn: W		Au::W Ag:W-M As:W	Au; Ag: Zn,		MagLo CS		G, GC, GP, IP		Medium	First
T-3	0.21	Copperfield Bx Stemwinder Fm Heciley Intrusive	Au: N Ag: N As, Zn: W		Au: W Au: N Ag: W - M Ag: W Zn: S Zn: W - M As: W Cu, Pb: W		W - M			g, gc, IP, TR	GP,	High	Second
T-4	0.14	Stemwinder Fm Heckley Intrusive	Au: N Ag: N As, Zn: W	Au:N Ag:W Zn:W-M As,Cu,Pb:W			MagH G, GC, MagC IP MCS		GP.	Medium	Second		
GEOL	OGY	GEOCHEMIS	TRY	GEOP	HYSICS		PROGRA	м	RA	ring	PRI	ORITY	
Whistle Fm Copperfield breccia Stemwinder Fm Hedley Intrusive Cahill Pluton Skam Silicification cpy - chalcopyrite ga - galena sp - sphalerite py - pyrite		S - Strong N - None Au - gold Ag - silver Pb - lead Zn - zinc Cu - copper As - arsenic	M - Moderate S - Strong N - None Au - gold Ag - silver Pb - lead Zn - zinc Cu - copper		MagH - Magnetic High MagLo - Magnetic Low MagC - Magnetic Conductor MCS - Multi Conductor Systems CS - Conductor System		G - Geology GC - Geochemistry GP - Mag/VLF IP - IP Survay TR - Trenching RC - Rotary Drilling CR - Core Drilling		II-M	i-High Firs fl-Medium Sec III-Low Thir		econd	

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8.0 CONCLUSIONS

- 8.1 A number of positive conclusions can be drawn from the past and present work programs on the Cap claims. The 1998 program was successful in delineating four target areas with coincidental multielement soil geochemical anomalies, magnetic highs and favourable geological units for the formation of skarn mineralization.
- 8.2 The stream sediment sampling was successful with two areas yielding anomalous samples. The first area, in the central portion of the Cap 2 claim gave three samples (06 90 ppb, 07 100 ppb, 62 15 ppb) with weakly to moderately anomalous gold values. No other elements were anomalous with the gold. The area is covered by thick accumulations of overburden and no cause is evident for the anomaly. The second area, in the upper reaches of Pettigrew Creek gave five samples (01, 05, 76 78) with weakly anomalous arsenic and zinc values. This anomaly appears to be caused by the known showing and soil geochemical anomalies on the property.
- 8.3 The soil geochemical response was favourable with four areas (Targets 1 4) giving multi-element (Ag, Zn, Pb, Cu, As) soil geochemical anomalies. In all but one case (Target 2) the soil geochemical anomalies occur coincidentally with magnetic highs that have been interpreted to be Hedley intrusive dykes, or mapped as Hedley dykes. The small, weak to moderate multi-element soil geochemical anomaly at target 1 is related to the Rodgers showing.
 - 8.4 The magnetic survey was successful in defining a number of significant magnetic features. A number of narrow, north trending magnetic highs occur over the property, and these have been interpreted to be dykes of the Hedley intrusive suite. Geological mapping has shown these magnetic highs to be individual Hedley dykes up to 25 metres in width, or swarms of Hedley dykes varying from 1 to 10 metres in width. Many of the magnetic highs occur coincidentally with multi-element soil geochemical anomalies, and one is spatially related to the Rodgers showing.
 - 8.5 Geological mapping has shown the property to be underlain by rock units favourable for the formation of Hedley type gold deposits. The Stemwinder Formation is considered a favourable host unit, and the dykes of the Hedley intrusive suite are genetically and spatially related to the gold mineralization.
 - 8.6 Prospecting has indicated the skarn mineralization at the Rodgers showing to be scattered over a strike length of 100 metres, and open to the north and south where it is covered by overburden. The mineralization consists of varying concentrations of pyrite, sphalerite, galena and chalcopyrite occurring along fractures and as disseminations in an indistinct, grey and green, calc-silicate ground mass.
 - 8.7 Rock samples taken at the Rodgers showing yielded weakly to moderately anomalous zinc (1.57%), lead (5980 ppm), copper (679 ppm) and silver (8.8 ppm) values. None of the samples were anomalous for gold.
 - 8.8 Three rock samples of pyritic, silicified and/or hornfelsed Copperfield breccia gave weakly anomalous gold (50 70 ppb) and silver (1.8 3.0 ppm) values. This type of mineralization may be similar to the uppermost alteration zone at the Nickel Plate Mine, referred to as the "upper siliceous beds". At the Nickel Plate, this type of alteration consists of mainly fine grained intergrowths of quartz and pyroxene, with lesser orthoclase, epidote, biotite and carbonate. Veins and vuggy masses of chalcedonic breccia are locally abundant, and many outcrops have a cherty appearance. This siliceous replacement alteration extends from the Hedley Formation up into the overlying Copperfield breccia. A somewhat similar situation may exist on the Cap claims, with the silicified Copperfield breccia representing a siliceous "cap" above the unexposed, main skarn envelope.

9.0 RECOMMENDATIONS

The 1998 exploration program yielded positive results and further work is warranted on the property. The exploration program should be conducted as follows:

- -complete the grid over the remainder of the property
- -conduct geological mapping, prospecting, soil sampling and Mag/VLF surveying over the grid -conduct an I.P. survey over the four target areas
- -conduct trenching over target areas and I.P. anomalies

Respectfully aubmitted,

M. P. CROOKER BRITISH

Grant K. Crooker, P.Geo., Consulting Geologist October 13, 1998

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11.0 CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, of Upper Bench Road, PO Box 404, Keremeos, British Columbia, Canada, V0X 1N0 do certify that:

I am a Consulting Geologist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Registration No. 18961);

I am a Fellow of the Geological Association of Canada (Registration No. 3758) and I am a Member of the Canadian Institute of Mining and Metallurgy and Petroleum;

I am a graduate (1972) of the University of British Columbia with a Bachelor of Science degree (B.Sc.) from the Faculty of Science having completed the Major program in geology;

I have practised my profession as a geologist for over 20 years, and since 1980, I have been practising as a consulting geologist and, in this capacity, have examined and reported on numerous mineral properties in North and South America;

I have based this report on field examinations within the area of interest and on a review of the available technical and geological data;

I am the owner of the Cap 1 and 2 mineral claims;

Respectfully stillmined. ROVINCE CRAOKER

Grant F. Crocker P. Geo., GFC Consultants Inc.

PLOAN	ce or
British	Columbia

Energy, Mines and Petroleum Resources GEOLOGICAL SURVEY BRANCH

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

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	TITLE OF REPORT [type of survey(s)] TOTAL COST Geological, Geochemical and Geophysical 29,228.19
AI	UTHOR(S)_ Grant F. CrookerSIGNATURE(S)SIGNATURE(S)
	OTICE OF WORK PERMIT NUMBER(S)/DATE(S)_KAM98-0400788-198, May 11, 1998 YEAR OF WORK 1997-98 TATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S)_3122597, August 6, 1998
Pł	AOPERTY NAME_ Cap (formerly Rodgers 2)
CI	AIM NAME(S) (on which work was done) Cap 1, 2
	DMMODITIES SOUGHTAu, Ag, Zm, Pb, Cu
М	INERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 92H-SE-173
	INING DIVISION_SimilkameenNTS92H 1E, 8E
v	TITUDE 49 o 14 , 50 LONGITUDE 120 o 13 . 15 (at centre of work)
0\ 1)	WNER(S) Grant F. Crooker 2)
	· · · · · · · · · · · · · · · · · · ·
M/	AILING ADDRESS Box 404
	Keremeos, BC
	VOX 1NO
OF 1)	PERATOR(S) [who paid for the work] Grant F. Crooker 2)
м/	AILING ADDRESS Box 404
	Keremeos, BC
	VOX 1NO
	OPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude): e property is underlain by Late Triassic Whistle and Stemwinder formations
5h	e nicola Group that have been intruded by Late Triassic Hedley intrusions
1i	d-Jurassic Cahill Creek pluton. Cala-silicate skarns of unknown size occur
:h	e Rodgers showing near the contact of limestones with dykes of Hedley? int
z i	ons. Anomalous zinc, lead and copper values occur within the skarn.

(OVER)

APPENDIX I

CERTIFICATES OF ANALYSIS

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Chemex Labs Ltd. Analytical Chemists * Geochemists * Registered Assayers

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. 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

CERTIFIC	ATE

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Project: CAP P.O. # : 23

Samples submitted to our lab in Vancouver, BC. This report was printed on 15-JUN-98.

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	SAMPLE PREPARATION											
CHEMEX CODE	NUMBER	DESCRIPTION										
201 229	102 102	Dry, sieve to -80 mesh ICP - AQ Digestion charge										
NOTE	 											

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Ba, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

		ANALYTICAL P	ROCEDURES
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD
983	102	Au ppb: Fuse 30 g sample	га-лаз
2118	102	Ag ppm: 32 element, soil & rock	Іср-авз
2119	102	Al %: 32 element, soil & rock	ICP-AES
2120	102	As ppm: 32 element, soil & rock	ICP-AES

983	102	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	102	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	102	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	102	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	102	Ba ppm: 32 element, soil & rock	icp-aes	10	10000
2122	102	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	102	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	102	Ca %: 32 element, soil & rock	ICP-ARS	0.01	15.00
2125	102	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	102	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	102	Cr ppm: 32 element, soil & rock	ICP-AES	ī	10000
2128	102	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	102	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	102	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	102	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	102	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	102	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	102	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	102	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	102	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	102	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	102	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	102	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	102	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	102	Sb ppm: 32 element, soil & rock	ICP-ARS	2	10000
2142	102	Sc ppm: 32 elements, soil & rock	ICP-ARS	1	10000
2143	102	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	102	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	102	T1 ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	102	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	102	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	102	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	102	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
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DETECTION

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Chemex Labs Ltd. Analytical Chemists * Goochemists * Registered Asseyers 212 Brooksbark Ave., North Vancouver Birlish Columbia, Canada V7J 201 PHONE; 604-984-0221 FAX: 604-984-0218

Project : CAP Comments: CC:GRANT CROOKER

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Chemex Labs Ltd. Analytical Chomists * Goochemists * Registrated Assayon 212 Brooksbank Ave., Bridish Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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Chemex Labs Ltd. Analytical Chemists * Geochemists * Registered Assayers 212 Brocksbank Ave., British Columbia, Canada V722C1 PHONE: 604-984-0221 FAX: 604-984-0218

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##	Page Number : 1-B
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	Certificate Date: 15-JUN-98
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	P.O. Number :23
	Account :LOY

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Chemex Labs Ltd. Analylical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave, North Vancouver British Columbia, Canada V71 2C1 PHONE: 504-984-0221 FAX: 604-984-0218

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100# 1125# 100# 1150# 100# 1175# 100# 1200# 100# 1225#	201 229 201 229 201 229 201 229 201 229 201 229	* \$ < \$ < \$ < \$ * \$	0.2 0.6 0.4 0.2 0.4	4.14 3.93 4.00 2.80 3.95	14 < 2 < 2 < 2 < 2 < 2	60 40 80 80 90	0.5 0.5 0.5 < 0.5 0.5	< 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2 < 2 2	0.20 0.05 0.08 0.21 0.13	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	4 3 5 5 6	10 7 8 11 10	9 4 7 10 10	2.34 1.80 1.85 1.77 1.94	10 < 10 < 10 10 10	<1 <1 <1 <1 <1 <1	0.03 0.04 0.03 0.06 0.04	< 10 < 10 < 10 < 10 < 10 < 10	0.14 0.05 0.08 0.17 0.13	80 90 1130 1070 860
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										CE	RTIF	CATE	OF A	NAL		A9821142
SANPLE	PREP CODE	Mo ppm	Ha X	Nİ ppn	P ppa	Pb ppm	Sb ppa	Sc ppn	sr 9pa	ti X	T1 ppm	U pp a	y Dom	W Dpm	Zn ppa	
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Page Number : 3-A Total Pages :3 Certificate Date: 15-JUN-98 Invoice No. :19821142 P.O. Number :23 Account :LOY

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Chemex Labs Ltd. Analylical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave. Brötsh Columbla, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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Chemex Labs Ltd. Analylical Chemists * Geochemists * Registered Assayors 212 Brocksbank Ave., British Columbia, Canada V7/201 PHONE: 604-984-0221 FAX: 604-984-0218

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Chemex Labs Ltd. Analytical Chemiste " Geochemiste " Registered Assayers 212 Brooksbank Ave, British Columble, Canada V7/2C1 PHONE: 604-984-0221 " FAX: 604-984-0218

Page Number :1-A Total Pages :2 Certificate Date: 14-JUL-18 Invoice No. : 19823853 P.O. Number :23 Account :LOY

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Chemex Labs Ltd. Anaylica Chemiste ' Registered Assayers 212 Brocksbank Ave., Britsh Columbia, Canada PHONE: 604-084-0221 FAX: 604-984-0216

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Chemex Labs Ltd. Analytical Chemists * Geochemiste * Registared Assayure 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 201 PHONE: 604-984-0221 FAX: 604-984-0218

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	SAMPLE	PREP CODE		du ppb Fd+dd	Ag ppm	A1 %	λø ppm	Ba ppa	Зе рра	Bi ppm	Ce S	Cđ pp=	Со ррн	Cr 99%	Cu ppa	Fa K	Ga ppm	Eg ppm	K %	La ррц	Ng %	Mr. ppn
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Chemex Labs Ltd. Analylical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave, Bridsh Columbia, Canada V7J 2CI PHONE: 604-984-0221 FAX: 604-984-0218

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Account	:LOY

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British Columbia, Canad	
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Chemex Labs Ltd. Analytical Chemists * Geochemists * Registored Assayers 212 Brooksbank Ave., * North Vancouver British Columbia, Canada V73 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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Page Number :1-A Total Pages :2 Certificate Date: 15-AUG-98 Invoice No. :19827423 P.O. Number : Account :LOY



Chemex Labs Ltd. Analylkal Chemiste * Geochemiste * Registered Assayers 212 Brooksbank Ave, North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-964-0221 FAX: 604-964-0218

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SANPLE	PREP CODE	Au ppb FA+AA) Ag	11 *	λs ppm	Ba ppm	Be ppm	Bi ppm	Ca N	Cđ ppm	Co ppm	Cr ppm	Cu ppm	te X	Ga ppm	Eg ppm	K S	La ppm	Ng X	Ma ppa
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Chemex Labs Ltd. Analylical Chamists * Geochemists * Registered Assayers 212 Brocksbank Ave., British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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00# 1200# 00# 1225# 00# 1250# 00# 200# 00# 225#	201 229 201 229 201 229 201 229 201 229 201 229	1 2 1 < 1 < 1	0.01 0.02 0.01 0.01 0.01	5 10 4 17 14	830 290 1020 950 910	6 6 6 12	< 2 2 < 2 < 2 < 2 < 2	1 2 2 1 2	12 38 5 52 40	0.09 0.08 0.10 0.09 0.08	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	41 40 33 44 38	< 10 < 10 < 10 < 10 < 10 < 10	84 100 70 88 80	······································

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Page Number : 2-A Total Pages : 2 Certificate Date: 15-AUG-94 Invoice No. : 19827423 P.O. Number : Account : LOY



Chemex Labs Ltd. Anaytical Chemistis * Registered Assayers 212 Brocksbank Ave. Britisch Columbia, Canada V7/201 PHONE: 604-984-0221 FAX: 604-984-0218

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SMQLS	PREP CODE	Au ppb FA+AA	Ag ppa	. 11 *	X. Ppu	3a. ppn	Be	Bi PDM	Ca ¥	са ррв	Co pps	Cr ppn	Cu ppa	Fe X	Ga ppm	Hg ppn	K K	La ppm	Hg X	Ma ppz
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400# 375# 400# 400# 400# 425# 400# 425# 400# 450#	201 229 201 229 201 229 201 229 201 229 201 229	< 5 < 5 < 5 < 5 < 5 10	0.2 < 0.2 < 0.2 0.2 0.2 0.5	3.28 1.93 1.24 2.34 2.45	< 1 < 2 < 2 < 2 < 2 < 2 < 2	80	0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	0.20 0.11 0.33 0.16 0.10	0.5 < 0.5 < 0.5 < 0.5 < 0.5 0.5	6 4 3 6	11 9 13 12 14	15 5 10 9 16	1.89 1.57 1.32 1.73 2.23	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1 < 1	0.04 0.02 0.03 0.06 0.03	< 10 < 10 < 10 < 10 < 10	0.18 0.10 0.18 0.16 0.15	220 125 145 320 235
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725N 475E 725N 500E 725N 525E 725N 550E 750N 400E	201 229 201 229 201 229 201 229 201 229 201 229 201 229	< 5 < 5 < 5 < 5 5	< 0.2 < 0.2 0.2 0.2 0.2	2.30 2.12 1.31 2.96 2.51	< 2 < 2 < 2 < 2 < 2 < 2 < 2		< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	<pre>< 3 < 2 < 2 < 2 < 2 < 2 < 3 < 3 < 4 </pre>	0.24	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	7 7 7 10 6	15 9 28 10	17 8 6 16 13	2.19 2.17 1.76 2.45 1.72	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 1 < 1	0.06 0.04 0.05 0.05 0.05	< 10 < 10 < 10 < 10 < 10 < 10	0.29 0.17 0.10 0.53 0.22	290 505 1375 595 \$5\$
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750% 5508 7758 4008 7758 4258 7758 4258 7758 4508 7758 4758	201 229 201 229 201 229 201 229 201 229 201 229 201 229	10 5 10 10 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2.57 2.28 2.82 2.91 2.50	< 1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	210	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 1 < 2 < 2 < 2 < 2 < 2 < 2 < 2	0.29 0.13 0.20 0.34 0.15	< 0.\$ < 0.\$ 0.5 < 0.5 < 0.5	14 5 7 5 9	29 8 12 8 9	21 10 12 12 12	2.99 1.44 1.90 1.69 2.44	< 10 < 10 < 10 < 10 < 10 < 10	<1 <1 <1 <1 <1	0.05 0.04 0.04 0.05 0.03	< 10 < 10 < 10 < 10 < 10 < 10	0.50 0.14 0.21 0.41 0.15	345 195 345 695 680
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Chemex Labs Ltd. Analytical Chemists * Goochemists * Registered Assayers 212 Brocksbank Ave., British Columbia, Canada V71 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

Page Number : 2-8 Total Pages :2 Certificate Date: 15-AUG-98 Invoice No. : 19827423 P.O. Number : Account :LOY

PREP CODE	No ppn	Na											the state of the s	N	
		*	Hi DPM	P PPm	РЬ ррм	Sb ppa	Sc ppm	Sr 9pa	Tİ ¥	T1 ppm	U ppm	V PDM	n DDR	Zn ppn	
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201 229 201 229 201 229 201 229 201 229	1 1 < 1 1	0.02 0.03 0.01 0.01	27 45 19 13	730 590 480 520	8 14 12 10	< 2 < 2 < 2 < 2	4 6 3 1	33 140 38 25	0.11 0.11 0.09 0.09	< 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10	54 49 45 38	< 10 < 10 < 10 < 10 < 10	198 148 104 132	2,,,,,,,
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212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

CERTIFICATE

A9823855

Project: CAP P.O. # : 23

Samples submitted to our lab in Vancouver, BC. This report was printed on 14-JUL-98.

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	SAM	PLE PREPARATION
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205 226 3202 229	32 32 32 32 32	Geochem ring to approx 150 mesh 0-3 Kg crush and split Rock - save entire reject ICP - AQ Digestion charge
NOTE	1.	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Ba, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

		ANALYTICAL P	ROCEDURES	5	
CHEMEX	NUMBER SAMPLES		METHOD		UPPEP LIMIT
983	32	Au ppb: Fuse 30 g sample	га-лая	5	10000
2118	32	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119 2120	32	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	32	As ppm: 32 element, soil & rock	ICP-ABS	2	10000
2122	32	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2123	32	Be ppm: 32 element, soil & rock	ICP-ARS	0.5	100.0
2124	32	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2125	32	Ca %: 32 element, soil & rock Cd ppm: 32 element, soil & rock	ICP-AES	0.01	15.00
2126	32	Co ppm: 32 element, soil & rock	ICP-ARS	0.5	500
2127	32	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	32	Cu ppm: 32 element, soil & rock	ICP-ARS	1	10000
2150	32	Fe %: 32 element, soil & rock	ICP-ARS	1	10000
2130	32	Ga ppm: 32 element, soil & rock	ICP-AES	0.01	15.00
2131	32	Hg ppm: 32 element, soil & rock	icp-aes icp-aes	10	10000
2132	32	K %: 32 element, soil & rock	ICP-ARS	1 0.01	10000
2151	32	La ppm: 32 element, soil & rock	ICP-AES	10	10.00
2134	32	Mg %: 32 element, soil & rock	ICP-AES	0.01	10000
2135	32	Mn ppm: 32 element, soil & rock	ICP-ARS	5	15.00
2136	32	Mo ppm: 32 element, soil & rock	ICP-ARS	5	10000 10000
2137	32	Na %: 32 element, soil & rock	ICP-ARS	0.01	10.00
2138	32	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	32	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	32	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	32	Sb ppm: 32 element, soil & rock	ICP-ARS	2	10000
2142	32	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	32	Sr ppm: 32 element, soil & rock	ICP-ABS	ī	10000
2144	32	Ti %: 32 element, soil & rock	ICP-ARS	0.01	10.00
2145	32	T1 ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	32	U ppm: 32 element, soil & rock	ICP-ARS	10	10000
2147	32	V ppm: 32 element, soil & rock	ICP-ARS	1	10000
2148	32	W ppm: 32 element, soil & rock	ICP-ABS	10	10000
2149	32	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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Page Number :1-A Total Pages :1 Certificate Date: 14-JUL-98 Invoice No. :19823855 P.O. Number :23 Account :LOY



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									CE	RTIF	CATE	OF A	NAL	/SIS		\9823	855		
FREP CODE	Au ppb FA+AA	lg ppm	А1 *	ks ppn	Ba ppu	34 ppm	si 97m	Ca %	Cđ ppm	Co pp=	Cr ppm	Cu pp=	70 X	Ga ppn	Hg ppm	K N	La ppm	Kg X	Mu ppu
205 220 205 220 205 220	< 5 5 5	0.4 0.2 0.6 0.2 < 0.2	2.59 3.33 2.76 3.92 1.34	26 < 2 < 2 < 2 < 2 12	140 230 300 120	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	* 2 * 2 * 2 * 2	1.31 2.09 4.09 \$.14 \$.05	<pre>'< 0.\$ < 0.\$ < 0.\$ < 0.\$ < 0.\$ < 0.\$ < 0.\$ < 0.\$ </pre>	17 13 4 24 15	63 46 50 46 30	34 39 44 35 24	1.49 2.68 2.17 6.26 1.83	< 10 < 10 < 10 10 < 10	< 1 < 1 < 1 < 1 < 1	0,40 0,20 0,34 0,43 0,11	< 10 < 10 < 10 < 10 < 10	1.00 0.45 1.50 0.86 0.37	270 205 115 400 415
305 226 205 226 205 226		< 0.2 0.2 < 0.2 0.1 2.6	2.19 2.72 0.95 1.73 0.91	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	40 50 80 10 20	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 2 4	4.06 12.05 2.05 11.20 7.35	< 0.3 < 0.5 < 0.5 0.5 53.5	9 6 3 2 5	49 14 66 42 21	25 15 9 1 205	2.28 1.96 0.95 2.41 4.19	< 10 < 10 < 10 < 10 < 10	<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1	0.09 0.09 0.04 0.01 0.02	< 10 < 10 < 10 < 10 < 10 < 10	0.21 0.21 0.39 0.71 0.37	350 500 305 3590 5970
205 226 205 226 205 226		€.0 1.4 0.6 < 0.2 8.8	0.62 1.58 2.63 2.43 2.51	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	10 70 30 10 30	< 0.5 < 0.5 0.5 0.5 0.5	4 2 4 2 4 3 4	10.30 5.49 7.20 6.38 7.93	34.5 33.5 116.0 < 0.5 204	3 1 9 1 14	25 18 33 19 27	206 49 12 < 1 679	5.94 3.48 5.40 4.09 4.54	< 10 < 10 < 10 < 10 < 10 < 10	<1 <1 <1 <1 <1 <1	0.01 0.03 0.04 0.05 0.11	<pre>< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10</pre>	0.39 0.73 1.40 1.53 0.97	6780 9330 >10000 9540 7090
205 220 205 220 205 220		3.6 < 0.3 0.6 0.2 < 0.2	1.99 1.69 2.30 2.80 1.42	< 2 < 2 < 2 < 2 < 2 < 2	10 50 30 110 30	0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7.24 1.83 2.94 0.59 0.13	\$.\$ 3.\$ 1.0 < 0.5 < 0.5	11	19 63 42 71 14	450 7 23 102 33	\$.62 1.57 3.76 3.73 4.98	< 10 < 10 < 10 < 10 < 10 < 10	<1 <1 <1 <1 <1	0.04 0.19 0.11 0.66 0.07	< 10 < 10 < 10 < 10 < 10 < 10	1.07 0.56 0.58 2.38 0.92	7290 2550 265 375 365
205 220 205 220 205 220	4 S	0.6 4.4 1.4 1.2 1.4	2.15 2.82 2.20 2.00 2.09	< 2 < 2 < 2 < 2 < 2	20 40 10 60 120	0.5 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2	4.05 5.44 9.89 2.58 2.98	11,0 63.5 58.5 3.5 15.5	10 4 10 6 9	55 33 36 88 103	102 1 38 73 96	4.61 3.12 3.64 2.05 3.25	< 10 < 10 < 10 < 10 < 10 < 10	<1 <1 <1 <1 <1	0.01 0.18 0.01 0.12 0.10	< 10 10 < 10 < 10 < 10 < 10	0.51 1.03 0.96 0.28 0.34	1030 6420 5870 135 90
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		1,1 1,0	1.76 2.47	16 13	\$Q 110	< Q.5 < 0.5	< 1 < 3	6.28 6.44	9.0 11.5	10 7	79 72	81. 63	2.59 1.75	< 10 < 10	1 < 1	0.04 0.04	10 10	0.12 0.34	260 315
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	CODE ROS 224 ROS 22	CODE FA-AA 205 226 <	CODE PA+AA ppa 205 226 4 5 0.4 205 226 5 0.2 0.2 205 226 5 0.2 0.2 205 226 5 0.2 0.2 205 226 5 4 0.2 205 226 5 4 0.2 205 226 5 4 0.2 205 226 5 4 0.2 205 226 5 4 0.2 205 226 5 4 0.2 205 226 5 4 0.2 205 226 5 4 0.4 205 226 5 4 0.4 205 226 5 4 0.4 205 226 5 4 0.4 205 226 5 1.4 205 226	CODE PA+AA ppm % 205 226 5 0.4 2.59 205 226 5 0.2 3.33 205 226 5 0.2 3.33 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.13 205 226 5 0.2 2.0 205 226 5 0.2 1.4 205 226 5 1.4	CODE PA+AA ppm % ppm 205 226 4 5 0.4 2.59 36 205 226 5 0.4 2.59 36 205 226 5 0.2 3.33 4 205 226 5 0.2 2.72 4 205 226 5 0.2 2.13 4 32 205 226 5 0.2 2.13 4 32 205 226 5 0.2 2.13 4 32 205 226 5 0.2 2.13 4 32 205 226 5 0.2 2.13 4 2 205 226 5 0.2 2.13 4 2 205 226 5 0.2 2.13 4 2 205 226 5 1.4 1.58 4 2 2 2 <t< td=""><td>CODE $p_1 + AA$ ppm q_1 $p_1 = p_2 = p$</td><td>CODE $p_1 + AA$ p_2m s_1 p_2m /td><td>CODE $p_1 + AA$ ppm $p_2 m$</td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td>PREP CODE Au pp Ai As Ba Ba</td><td>PREP CODE Au ppb Ag Ai As Ba Ba Ba Bi Ca Cd Cd CO 205 226 < \$</td> 0.4 2.59 26 140 < 0.5</t<>	CODE $p_1 + AA$ ppm q_1 $p_1 = p_2 = p$	CODE $p_1 + AA$ p_2m s_1 p_2m	CODE $p_1 + AA$ ppm $p_2 m$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	PREP CODE Au pp Ai As Ba r>CODE Au ppb Ag Ai As Ba Ba Ba Bi Ca Cd Cd CO 205 226 < \$	PREP Au ppb Ag As Ba <	PREP Au ppb Ag Ai As Ba Au ppb Ag Ai As Ba <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PREP CODE Au ppb Lg Ai As Ba r>CODE Au prob Au Au pro ""><td>PREP COD Au ppb Lg Ai As Ba Ba Si Ca Cd Coo Cu Pa Ga Bg K ppm k ppm k ppm k</td></th<>	PREP COD Au ppb Lg Ai As Ba Ba Si Ca Cd Coo Cu Pa Ga Bg K ppm k ppm k ppm k			

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Page Number :1-B Total Pages :1 Contlicate Date: 14-JUL-98 Involce No. :19823155 P.O. Number :23 Account :LOY

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SANPLE	PREP CODE	Мо ррм	Ba S	Ni ppz	P ppa	Pb ppm	Sb ppa	Sc ppn	Sr ppa	i ni	T1 ppm	U PPM	V DDm	N ppm	Zn ppn	
23079 23080 23081 23083 23083 23083	205 226 205 226 205 226 205 226 205 226 205 226	1 1 3 4 1	0.22 0.30 0.15 0.10 0.07	13 12 30 23 \$	\$00 \$50 630 1010 760	< 2 < 2 < 2 < 4	< 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 1 7 7	125 191 961 351 257	0.26 0.23 0.15 0.31 0.21	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 10 < 10 < 10 < 10	108 56 27 117 101	< 10 < 10 < 10 < 20 < 10	52 64 28 142 56	
23084 23085 23085 23086 23087 23088	205 234 205 338 205 226 205 226 205 226 205 226	< 1 < 1	0.13 0.23 0.11 < 0.01 < 0.01	9 6 10 6	1000 780 210 390 140	< 2 4 2 126 376	2 4 2 2 2	2 (1) 1 2 1	180 780 225 502 105	0.12 0.03 0.07 0.08 0.05	< 10 < 10 < 10 < 10 < 10 < 10	10 10 < 10 10 < 10	30 12 12 23 15	< 10 < 10 < 10 < 10 < 10 < 10	40 23 62 132 6220	
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23104 23105 23105 23106 23107 23108	205 226 205 226 205 226 205 226 205 226 205 226	11 . 36 16 5	0.29 0.14 0.05 0.09 0.05	34 30 58 41 47	620 1110 1620 1520 780	18 < 3 12 < 2 2	< 2 < 2 < 2 < 2 < 2	1 1 3 1 5	886 432 331 161 57	0.09 0.00 0.14 0.15 0.25	<pre>< 10 < 10 < 10 < 10 < 10 < 10 < 10</pre>	10 10 < 10 < 10 < 10	43 34 522 78 76	< 10 < 10 < 10 < 10 < 10 < 10	344 510 238 42 118	
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Chemex Labs Ltd.

nalylical Chemiste * Geochemiste * Rogistered Assaya 212 Brooksbank Ave., North Vancouver British Columbia, Caneda V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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SAMPLS	PREP	ац ррђ Рана	λg ppa	¥1 ¥	As ppn	Ва ррж	Be ppm	Bi ppm	Ca.	Cđ ppn	Со ррж	Cr ppm	Cu ppm	76 %	Ga ppu	Hg ppm	K ¥	La ppu	Mg X	Ma ppa
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123 116 123 117 123 117 123 118 123 119 123 120	203 226 205 226 205 226 205 226 205 226 205 226	15 < 5 10	0.2 3.3 1.2 3.0 0.4	0.16 2.06 1.07 1.84 1.81	< 2 16 8 16 24	60 100 120	< 0.3 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	>15.00 5.02 2.27 2.76 1.27	< 0.3 5.5 0.5 < 0.5 < 1.5	1 9 3 1	10 70 93 85 109	7 89 39 61 55	1.20 2.42 1.32 1.29 2.59	< 10 < 10 < 10 < 10 < 10 < 10	1 <1 <1 <1 <1	< 0.01 0.04 0.13 0.25 0.16	< 10 < 10 < 10 10 < 10	0.26 0.05 0.18 0.47 0.65	\$83 215 115 140 180
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Chemex Labs Ltd. Analytical Chamists ' Goochemists ' Rogistored Assayers 212 Brooksbark Ave., North Vancouver British Columbia, Canada V71 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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23 116 23 117 23 118 23 118 23 119 23 120		205 205 205 205 205	226 226 226	<pre></pre>	< 0.01 0.25 0.06 0.11	5 55 17 13 49	270 1050 720 1200 600	10 16 10 12	< 2 < 2 < 2 < 2 < 2 < 2 < 2	< 1 1 3 3 4	4180 559 220 140 43	0.01 0.10 0.12 0.12 0.12	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	7 48 37 42 178	< 10 < 10 < 10 < 10 < 10 < 10	6 286 44 30 112		
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Chemex Labs Ltd. Analytical Chemists * Geochemists * Registered Assayer 212 Brocksbank Ave., British Columbis, Canada V7/201 PHONE: 604-984-0221 FAX: 604-984-0218

										CE	RTIFI	CATE	OF A	NAL	YSIS		A9827	422		
SAMPLE	PREP CODE	Ац ррђ Ранал	Ag ppa	A1 \$). Dom	Ba. ppm	Be	Bi ppm	Ca ¥	Cđ	Co ppm	Cr pps	Cu pps	70 %	Ga ppa	Eg ppm	R %	La ppu	Hg K	Ил ррж
123 122 123 123 123 124 123 124 123 125 123 125 123 126	205 226 205 226 205 226 205 226 205 226 205 226		< 0.2 < 0.2 < 0.2 0.2 < 0.2 < 0.2	1.99 2.55 4.59 5.06 0.55	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	130 < 30 < 20 <	0.5 0.5 0.5 0.5 0.5	2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 <	6.32 3.52 7.29 7.94 0.16	1.0 1.5 6.0 2.0 < 0.5	11 21 18 16 2	36 56 28 36 129	16 23 26 25 4	2.03 2.99 3.11 2.71 0.67	< 10 < 10 10 10 < 10	1 < 1 < 1 < 1 < 1	0.05 0.07 0.01 0.01 0.03	< 10 < 10 < 10 < 10 < 10 < 10	0.65 0.71 0.20 0.14 0.24	1565 1855 810 680 135
123 127 123 128 123 129 123 130 123 131	205 226 205 226 205 226 205 226 203 226 203 226 205 226		< 0.2 0.4 < 0.2 0.2 0.5	3.56 2.99 2.35 2.62 2.31	< 3 < 2 < 2 8 10	30 < 70 < 60 <	0.5	< 2 < 2 < 2 < 2 < 2	6.64 1.96 1.88 5.66 1.70	2.5 < 0.5 < 0.5 < 0.5 < 0.5	10 12 24 6 7	54 93 108 95 129	19 63 26 66 61	1.61 3.12 3.36 2.14 3.21	< 10 < 10 < 10 < 10 < 10 < 10	<1 <1 <1 <1 <1	0.06 0,21 0.09 0.23 0.29	< 10 10 10 < 10 < 10	0.38 0.63 2.28 0.37 0.46	615 190 400 245 170
123 132 123 133 123 134 123 134 123 135 123 136	205 226 205 226 205 226 205 226 205 226 205 226	5 5 10	0.8 0.2 0.4 0.5 2.4	3.94 2.25 3.65 2.36 2.12	< 2 < 2 12 20 66	110 360 <	0.5		12.90 15.00 8.71 2.60 1.40	< 0.5 0.5 2.5 0.5 0.5	17 7 6 5 12	45 19 \$3 \$3 137	85 36 46 80 36	3.41 1.73 1.71 2.17 3.10	< 10 < 10 < 10 < 20 < 10	2 1 <1 <1 <1 <1	0.01 0.05 0.14 9.53 0.43	10 < 10 10 10 < 10	0.05 0.04 0.17 0.76 0.95	750 1265 255 105 160
123 137 123 138 123 139 123 140 123 141	205 226 205 226 205 226 205 226 205 226 205 226	< \$	1.2 3.0 0.1 0.1	3.68 4.42 1.21 2.52 1.70	16 74 10 8 < 2	40 < 80 <	0.5	< 2 < 2 < 2 < 2	7.48 1.20 1.98 5.06 1.60	< 0.5 < 0.5 0.5 5.5 0.5	* 23 7 * 7	54 45 110 54 108	\$6 128 71 45 78	1.36 4.04 1.59 1.17 1.94	< 10 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.14 0.29 0.08 0.07 0.13	10 10 10 10 10	0.20 0.63 0.06 0.24 0.45	160 275 30 670 95
123 142 123 143 123 143 123 144 123 145 123 145 123 146	205 226 203 226 205 225 205 226 205 226 205 226	10 < 5 < 5 < 5 5 5	0.8 0.6 < 0.2 0.6 1.0	1.94 1.85 2.18 2.71 1.65	2 < 2 < 2 < 2 < 2 < 2 < 2	60 < 70 < 60 <	0.5 0.5 0.5 0.5 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	1.54 8.35 8.75 10.80 2.03	< 0.\$ < 0.5 < 0.5 < 0.5 0.5	6 6 1 3 3	118 49 36 43 69	44 35 10 57 43	1.84 0.45 0.40 1.54 1.25	< 10 < 10 < 10 < 10 < 10 < 10	1 <1 <1 <1 <1	0.21 0.06 0.09 0.13 0.11	< 10 < 10 < 10 < 10 < 10 < 10	0.70 0.16 0.10 0.16 0.26	120 190 225 490 95
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Chemex Labs Ltd. Analytical Chemistis * Geochemistis * Registered Assayers 212 Brocksbank Ave. British Columbia, Canada V7/2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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PREP CODB 205 226 205 226 205 226 205 226 205 226 205 226		Na 1	Ni pp=	P	Pb	_									
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Chemex Labs Ltd. Analylical Chemists * Geochemists * Registered Assayers 212 Brockubark Ave. British Columbia, Canada PHONE: 604-984-0221 FAX: 604-984-0216

Project: CAP P.O. #; 23

Samples submitted to our lab in Vancouver, BC. This report was printed on 15-JUL-98.

	SAM	PLE PREPARATION
CHEMEX	NUMBER SAMPLES	DESCRIPTION
244	1	Fulp; prev. prepared at Cheses

			ANALYTICAL	PROCEDURES	;.	
CODE	NUMBER	1997 - 19	DESCRIPTION	METHOD	DETECTION	UPPER
316	1	In %: Conc. 1	Nitric-HCL dig'n	278	0.01	100.0
	[



Chemex Labs Ltd. Analytical Chemistis * Geochamistis * Registered Assayere 212 Blocksbank Ave. British Columbia, Canada PHONE: 604-984-0221 FAX: 604-984-0218

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CERTIFICATE OF ANALYSIS A9824603 Prep Code Zn % SAMPLE 123093 244 ---1.57 ;

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A9824603

APPENDIX II

MAGNETIC AND VLF-EM DATA

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Grant F. Crooker Area: Cap Claims Grid: Cap Date: July 1998 Instrument Type: Scintrex MP-2: Geonics EM-16: Station: Data Types: #1 #2 #3	Line and Station: +=Northing/Easting -=Southing/Westing File Name: CPmavI01 Details: Corrected Total Field Magnetic Values In-Phase and Quadrature Values Seattle, Facing Easterly Corrected Total Field Magnetic Values VLF-EM In Phase Values (percent) VLF-EM Quadrature Values (percent)	925 925 11ne 900 900 900 900 900 900 900 900 900 900	587.5 600 025 050 075 100 125 150 175 200 275 300 312.5 325 337.5 350 362.5 337.5	56019 56042 56058 56123 56193 56208 56208 56623 56623 56624 56024 56028 56058 56001 56001 560027 56027 56027	7 6 3 3 5 3 3 5 6 8 13 11 12 17 20 21	-7 -7 4 6 2 -2 -3 -2 -3 -2 -5 -5 -5 -5 -5 -7 -4 -1	
NVS E/W Inte 950 300 950 312.5 950 325 950 325 950 325 950 350 950 360 950 367.5 950 387.5 950 400 950 417.5 950 425 950 425 950 427.5 950 427.5 950 427.5 950 427.5 950 427.5 950 427.5 950 525 950 525 950 525 950 525 950 525 950 525 950 525 950 525 950 525 950 525 925 325 925 325 925 425 <t< td=""><td>#1 #2 #3 55893 7 -7 55894 3 -5 55005 13 -1 55006 13 -1 55006 17 -1 55006 17 -1 55006 11 -6 55026 9 -4 56030 8 -4 560513 10 -8 56128 10 -6 56129 10 -8 56120 10 -8 56220 7 -8 56221 10 -8 56222 7 -8 56232 11 -3 56232 11 -3 56232 11 -3 56232 17 -7 56023 5 -7 56024 12 -1 56025 5 1 560062 13 -3</td><td>900 900 900 900 900 900 900 900 900 900</td><td>- 350 362.5 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 400 - 412.5 - 425 - 412.5 - 412.5 - 412.5 - 412.5 - 412.5 - 525 - 537.5 - 540 - 512.5 - 525 - 575 - 587.5 - 580.5 - 575 - 700 - 725 - 10000 - 10000 - 1000</td><td>56043 56006 56047 55995 56123 55979 56007 56105 56032 55984 56027 56105 56223 56223 56224 56220 56173 56220 56173 56220 56173 56077 55991 55944 55934 55934 55934 55934 55935 55940 55940 55940 55947 55947 55937 55940 55947 55947 55937 55940 55940 55940 55940 55947 55940 55945 55945 55945 55945 55945 55945 55922 55923 56057 55940 55940 55946 55972 55923 56057 55940 55946 55972 55923 56057 55940 55947 55972 55940 55940 55945 55946 55972 55972 55972 55972 55972 55972 55972 55972 55972 55975 55946 55775 55946 55746 55746 55746 55746 55746 55746 55746 55775 55946 55775 55946 55946 55977 55976 55977 55977 55977 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55977 55978 55978 55977 55978 55977 55978 55977 55978 55978 55977 55978 55977 55978 55977 55978 55979 55978 55978 55978 55978 55978 55978 55979 55978 55979 55978 55979 55979 559786 559786 559786 559786 559786 559786 559786 559786 5</td><td>18 14 771014115161516140036677681212621064371211561400778109 22018</td><td>-2 -5 -9 -8 -8 -8 -8 -7 -4 -3 -4 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1</td><td></td></t<>	#1 #2 #3 55893 7 -7 55894 3 -5 55005 13 -1 55006 13 -1 55006 17 -1 55006 17 -1 55006 11 -6 55026 9 -4 56030 8 -4 560513 10 -8 56128 10 -6 56129 10 -8 56120 10 -8 56220 7 -8 56221 10 -8 56222 7 -8 56232 11 -3 56232 11 -3 56232 11 -3 56232 17 -7 56023 5 -7 56024 12 -1 56025 5 1 560062 13 -3	900 900 900 900 900 900 900 900 900 900	- 350 362.5 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 375 - 400 - 412.5 - 425 - 412.5 - 412.5 - 412.5 - 412.5 - 412.5 - 525 - 537.5 - 540 - 512.5 - 525 - 575 - 587.5 - 580.5 - 575 - 700 - 725 - 10000 - 10000 - 1000	56043 56006 56047 55995 56123 55979 56007 56105 56032 55984 56027 56105 56223 56223 56224 56220 56173 56220 56173 56220 56173 56077 55991 55944 55934 55934 55934 55934 55935 55940 55940 55940 55947 55947 55937 55940 55947 55947 55937 55940 55940 55940 55940 55947 55940 55945 55945 55945 55945 55945 55945 55922 55923 56057 55940 55940 55946 55972 55923 56057 55940 55946 55972 55923 56057 55940 55947 55972 55940 55940 55945 55946 55972 55972 55972 55972 55972 55972 55972 55972 55972 55975 55946 55775 55946 55746 55746 55746 55746 55746 55746 55746 55775 55946 55775 55946 55946 55977 55976 55977 55977 55977 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55978 55977 55977 55978 55978 55977 55978 55977 55978 55977 55978 55978 55977 55978 55977 55978 55977 55978 55979 55978 55978 55978 55978 55978 55978 55979 55978 55979 55978 55979 55979 559786 559786 559786 559786 559786 559786 559786 559786 5	18 14 771014115161516140036677681212621064371211561400778109 22018	-2 -5 -9 -8 -8 -8 -8 -7 -4 -3 -4 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	

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875 337.5 350 362.5 56101 15 -2 55957 55987 56023 56003 562.5 6 -11 -12 -11 -9 -1 56150 56092 56044 56107 56091 56020 56028 56028 56028 56045 56048 56069 56038 56069 56023 56069 56234 56069 56233 56016 55979 55985 55980 15 13 11 11 14 12 5 15 18 20 9 13 8 14 21 17 575 -4 -6 587.5 600 375 387.5 400 412.5 425 437.5 437.5 450 462.5 475 -8 -9 -7 56001 10 12 17 19 22 72 21 35 44 43 22 42 N 20 20 13 16 4 5 -5 56156; 56346; 56346; 56346; 56346; 563782; 56076; 56076; 56076; 56076; 56076; 56076; 56070; 56070; 56070; 56070; 55037 0 -8 64000000 -6 -3 Ô 487.5 500 512.5 525 537.5 550 562.5 575 587.5 600 4999 6 ā -3 -7 3 -7 5 -8 -1 7 -8 -7 -10 -10 -7 5 5 7 ጓጓማ -2-5-7 300 312.5 327.5 337.5 337.5 375.5 375.5 400 412.5 425 437.5 4452.5 4452.5 4452.5 4452.5 513.5 515.5 51 56019 58053 58074 56149 56179 56133 58380 56133 58380 55984 55981 55984 55984 55984 55984 55984 55984 55984 55984 55984 55984 55984 55985 55984 55985 55984 55985 55984 55985 55984 55985 55985 56022 27 2 2 2 1 5 1 7 1 2 2 1 9 8 1 7 7 1 ó 7799977 \$\$\$N 8 6 15 2 7 349718128877 ゆやりょうやや 4 13 16 24 30 2 34 17 15 9 3 4 4 5 1 1 4 4 4 4 7 1 2 G 3 3 7 10 10 5 12 12 *** -1 8 14 14 6 0 8 300 312.5 325 337.5 350 362.5 387.5 400 412.5 425 437.5 450 462.5 437.5 500 512.5 525 537.5 550 56013 56015 56148 56638 56201 56076 56076 55095 55960 55995 55960 55945 55944 55945 55944 55945 55947 55095 55977 56099 56086 56098 56377 21 19 20 18 19 15 16 19 18 19 17 17 17 7 1-4640 0 -2 -1 - - - --1 -2 -1 -6 -2 -1 0 9 ġ 14 13 12 12 ŏ 449994044 24 3 -ŝ 5 000 025 050 075 100 55963 55967 55964 56061 56155 -12 -19 -15 -22 -24 23 -6 -12 -5 -11 -10 3 11 8

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APPENDIX III

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GEOPHYSICAL EQUIPMENT SPECIFICATIONS

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MP-2 PROTON PRECESSION MAGNETOMETER

	Resolution:	1 gamma
	Total Field Accuracy:	± gamma over full operating range
	Range:	20,000 to 100,000 gammas in 25 overlapping steps.
	Internal Measuring Program:	A reading appears 1.5 seconds after depression of Operate Switch & remains displayed for 2.2 secs. Recycling feature permits automat- ic repetitive readings at 3.7 sec. intervals.
	External Trigger:	External trigger input permits use of sampling intervals longer than 3.7 seconds.
	Display:	5 digit LED readout displaying total magnetic field in gammas or normalized battery voltage.
	Data Output:	Multiplied precession frequency and gate time outputs for base station recording using interfac- ing optionally available from Scintrex.
	Gradient Tolerance:	Up to 5,000 gammas/meter.
	Power Source:	8 size D cells ≈25,000 readings at 25° C under reasonable conditions.
	Sensor:	Omnidirectional, shielded, noise- cancelling dual coil, optimized for high gradient tolerance.
	Harness:	Complete for operation with staff or back pack sensor.
;	Operating Temperature Range:	-35 to +60° C.
1	Size:	Console, 8 x 16 x 25 cm; Sensor, 8 x 15 cm; Staff 30 x 66 cm;
	Weights:	Console, 1.8 kg; Sensor, 1.3 kg; Staff, 0.6 kg;
	Manufacturer:	Scintrex 222 Snidercroft Road Concord, Ontario
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GEONICS LIMITED VLF EM 16

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Source of Primary Field	VLF transmitting stations
Transmitting Stations Used:	Any desired station frequency can be supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.
Operating Frequency Range:	About 15-25 Hz.
Parameters Measured:	1- The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). 2- The vertical out-of-phase (quad -rature) component (the short axis of the polarization ellipsoid com- pared to the long axis).
Method of Reading:	In-phase from a mechanical inclin- ometer and quadrature from a cali- brated dial. Nulling by audio tone
Scale Range:	In-phase ± 150%; quadrature ±40%
Readability:	±1%
Operating Temperature Range:	-40 to 50° C.
Operating Controls:	ON-OFF switch, battery testing push button, station selector, switch, volume control, quadrat- ure dial ±40%, inclinometer ± 150%
Power Supply:	6 size AA alkaline cells ≈200 hrs.
Dimensions:	42 x 14 x 9 cm (16 x 5.5 x 3.5 in)
Weight:	1.6 kg. (3.5 lbs)
Instrument Supplied With:	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (ad- ditional frequencies are optional) set of batteries.
Manufacturer:	Geonics Limited 1745 Meyerside Drive/Unit 8 Mississauga, Ontatio L5T 1C5

APPENDIX IV

ROCK SAMPLE DESCRIPTIONS

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	Sample No.	Width cm	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Description
	079	grab	<5	0.4	26	34	<2	52	grey-black, feldspar porphyry dyke? 1-5% pyrite
	080	grab	<5	0.2	<2	38	<2	64	light grey-black siliceous dyke? Locally to 20% pyrite
	081	grab	5	0.6	<2	44	<2	28	dark grey-green sugary textured dyke, 1% pyrite along margin
hand	082	grab	5	0.2	<2	35	6	142	grey siliceous dyke, 1-5% pyrite
-	083	grab	<5	<0,2	12	24	<2	56	dark grey-green limestone, sugary textured, 5% pyrite, altered?
	084	grab	<5	<0.2	<2	25	<2	40	grey siliceous dyke, 1-5% pyrite
	085	grab	<5	0.2	<2	15	<2	28	reddish altered limestone, 1 mm fractures with calcite, near dyke
	086	grab	<5	<0.2	<2	9	6	62	grey-white hornfelsed argillite, silicified, 1% fine grained sulphides
	087	float	<5	0.2	<2	8	126	132	white, grey, green skarn, minor white calcite, limestone
aat	088	grab	<5	2.6	<2	205	376	4220	pale green, grey skarn, white calcite, black 1% sphalerite, pyrite,
	089	grab	<5	4.0	<2	206	568	2510	grey, green skarn, calcite, 1/2% sphalerite, trace galena, pyrite
	090	grab	<5	1.4	<2	49	230	2070	green skarn, brown garnet, white calcite, ½% sphalerite, limonite
	091	float	<5	0.6	<2	12	44	7530	green skarn, brown garnet, white calcite, limonite along fractures
	092	float	<5	<0.2	<2	<1	<2	160	green skarn, minor white calcite, no sulphides
tind	093	select	<5	8.8	<2	679	760	1.57%	grey, white skarn, 1% sphalerite, trace chalcopyrite, limonite
	094	grab	<5	3.6	<2	450	76	468	boulders, grey, green skarn, 1% pyrite, trace chalcopyrite, limonite
	095	grab	<5	<0.2	<2	7	4	388	grey, bleached, hornfeled argillite, rusty fractures
	096	grab	<5	0.6	<2	23	6	94	grey siliceous dyke? 1-10% pyrite, minor, orange limestone
	097	grab	<5	0.2	8	102	<2	40	grey, hornfelsed argillite, 1-5% pyrite on fractures, minor calcite
	098	grab	<5	<0.2	<2	33	2	48	grey, green, fine grained dyke, 3-5% magnetite, Hedley dyke
أعنيا	099	float	<5	0.6	2	102	444	706	weak skarn, white calcite, limonite, trace sphalerite on fractures
	100	select	<5	4.4	<2	1	5710	5960	light grey skarn, white calcite, orange limonite
	101	float	<5	1.4	<2	38	2000	3720	dark grey, weak skarn, white calcite
	102	grab	10	1.2	2	73	20	220	rusty, glassy, hornfelsed argillite, 1-2% pyrite
	103	grab	10	1.4	<2	96	6	698	rusty, weakly hornfelsed argillite, calcite on fractures, trace pyrite
مينيا. المقبر	104	float	10	0.8	<2	47	18	344	silicified limestone, to 5% pyrite locally
	105	float	10	1.4	<2	106	<2	580	silicified limestone, minor argillite, trace to 5% pyrite locally
	106	grab	10	1.2	24	60	12	238	rusty argillite, 2% pyrite
	107	grab	<5	0.8	<2	81	<2	42	silicified Copperfield breccia, minor argillite, 1% pyrite
	108	grab	<5	1.0	10	80	2	118	gey-black, hornfelsed argillite, silicified, to 5% pyrite locally
	109	grab	70	1.8	16	81	2	416	white, dark grey, rusty, Copperfield breccia, silicified, 2% pyrite
	110	grab	15	1.0	12	63	6	458	grey, white, rusty, Copperfield breccia, silicified, 2% pyrite
	111	grab	<5	0.4	18	58	10	162	black limestone, rusty argillite, 2-4 mm calcite veinlets, 2% pyrite
1i	112	grab	<5	0.4	2	12	10	42	grey-black limestone, 1-5 mm white calcite veinlets, rusty fractures
	113	grab	<5	<0.2	92	15	6	48	green, grey hornblende dyke, 1-2% pyrite, Hedley dyke?
	114	grab	<5	0.8	6	54	16	250	rusty argillite, silicified limestone, 1-10% pyrite
	115	float	<5	2.0	26	56	16	40	silicified limestone, glassy argililite, fractures with calcite, pyrite
_	116	float	<5	0.2	<2	7	10	6	limestone cut by veinlets of black calcite
	117	float	15	2.2	16	89	16	286	hornfelsed argillite, limestone, calcite veinlets, 2-4% pyrite
	118	grab	<5	1.2	8	39	8	44	light-dark grey silicified? Copperfield breccia, trace pyrite
	119	grab	10	1.0	16	61	10	30	light grey silicified? Copperfield breccia, rusty
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120	grab	<5	0.4	24	55	12	112	glassy, hornfelsed argillite, rusty, 1-3% pyrite
121	grab	10	0.8	26	93	6	114	glassy, hornfelsed argillite, rusty, 1-3% pyrite
122	grab	<5	<0.2	~2	16	154	158	weak skarn, stronger on fractures, 1-4% pyrite black sulphide?
123	grab	<5	<0.2	<2	23	22	136	grey, green skarn, rusty fractures, brown garnet
124	grab	<5	<0.2	<2	26	14	250	minor grey skarn, 5-10% pyrite,
125	grab	<5	0.2	<2	25	6	176	grey skarn, silicification, 2-5% pyrite, weak green alteration
126	float	<5	<0.2	<2	4	4	18	argillite with quartz veinlets, rusty fractures
127	grab	<5	<0.2	<2	19	10	198	minor green skarn, white calcite, to 5% pyrite
128	grab	<5	0.4	<2	63	6	76	hornfelsed argillite, some silicification, to 5% pyrite
129	grab	<5	<0.2	<2	26	<2	54	bleached, Hedley dyke, rusty on weathered surface
130	grab	<5	0.2	8	46	10	126	rusty argillite, 1-2% pyrite, minor unaltered limestone
131	grab	<5	0.6	10	61	12	100	rusty argillite, 1-3% pyrite, minor unaftered limestone
132	grab	10	0.8	<2	85	8	50	silicified limestone, trace to 5% pyrrhotite, trace of chalcopyrite?
133	grab	5	0.2	<2	36	6	40	selective silicification of limestone, 2-5% pyrrhotite on fractures
134	grab	5	0.4	12	46	<2	64	white, silicified Copperfield breccia, irregular, 1% pyrrhotite
135	grab	10	0.6	10	80	6	42	dark grey siloicified Copperfield breccia, rusty
136	grab	60	2.4	66	56	12	52	dark grey silicified Copperfield breccia, 1-4% pyrite, irregular
137	float	10	1.2	16	85	2	36	grey silicified skarn? minor green, 1-4% pyrite, white calcite
138	grab	50	3.0	74	128	18	38	grey silicified skarn? 2-4% pyrite, trace pale pink alteration
139	grab	20	0.8	10	71	6	26	grey-black silicified skarn? White calcite, 1-4% pyrite
140	grab	<5	0.8	8	45	6	250	grey silicified Copperfield breccia, calcite, trace pyrite, pyrrhotite
141	grab	<5	0.6	<2	78	6	64	grey-black silicified skarn? Copperfield breccia, 1-4% pyrrhotite
142	grab	10	0.8	2	44	2	42	grey silicified skarn, Copperfield breccia, 10% pyrrhotite
143	grab	<5	0.6	<2	35	6	32	grey skarn? Narrow argillite beds, 1/2% pyrite
144	grab	<5	<0.2	<2	10	6	26	white calcite, grey silicified zones, trace sulphides
145	grab	<5	0.6	<2	57	2	28	minor argillite and white marble, grey silicification, trace sulphides
146	grab	5	1.0	<2	43	8	28	grey silicified skarn, Copperfield breccia, pyrite on fractures
147	grab	<5	0.8	<2	17	<2	16	grey silicified skarn, Copperfield breccia, pyrite on fractures

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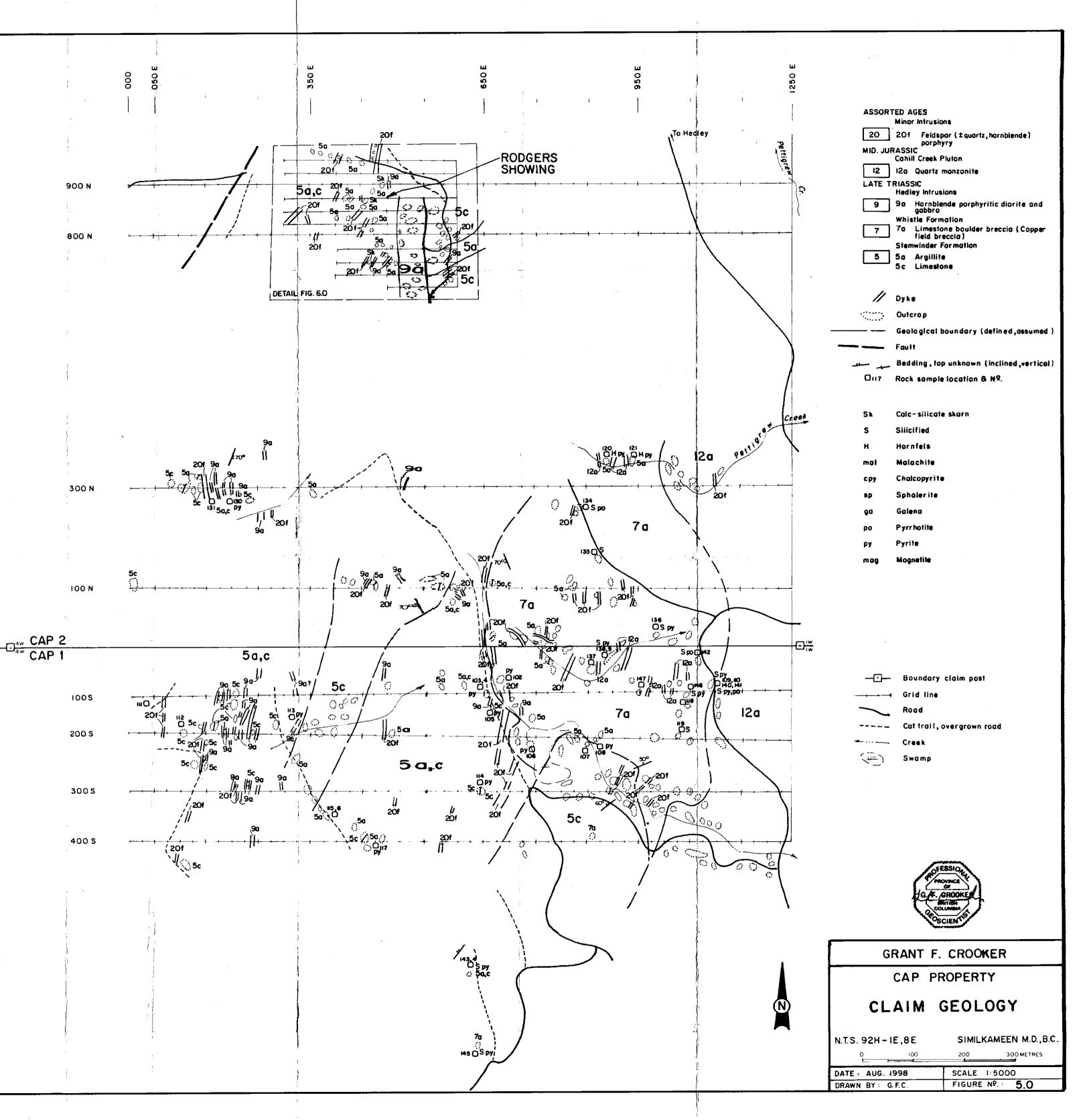
Sample No.	Width	Au ppb	Ag ppm	As ppm	Cu ppm	Pb	Zn ppm	C)-eacription
079	grab	ব	0.4	26	34	2	52	garey-black, feldspar porphyry dyke? 1-5% pyrile
080	grab	<5	0.2	2	38	2	64	Hight grey-black siliceous dyke? Locally to 20% pyrite
081	grab	5	0.6	2	44	4	28	diærk grey-green sugary textured dyke, 1% pyrite along mangin
082	grab grab	5 <5	0.2 <0,2	<2 12	35 24	6	142 -	gar ey siliceous dyke, 1-5% pyrite claark grey-green limestone, sugary textured, 5% pyrite, attered?
084	grab		<0.2	2	25	2	40	garey siliceous dyke, 1-5% pyrite
085	grab	<5	0.2	<2	15	~2	28	resident allered limestone, 1 mm fractures with calcite, near dyke
086	grab	<5	<0.2	2	9	6	62	Carey-white hornleised argilitie, silicified, 1% fine grained sulphides
087	float	<5	0.2	2	8	128	132	while, grey, green skarn, minor while calcile, limestone
088	grab	্ব ব্য	2.6 4.0	Q Q	205	376 568	4220	parate green, grey skam, while calcite, black 1% sphalerite, pyrite, garey, green skam, calcite, ½% sphalerite, trace galena, pyrite
089 090	grab grab		1.4	4	49	230	2070	Careen skam, brown garnet, white calcite, 1/2% sphalerile, limonite
091	float	<5	0.6	~	12	44	7530	Careen skam, brown garnet, while calcite, limonite along fractures
092	float	<5	<0.2	<2	<1	<2	160	Careen skarn, minor white calcite, no sulphides
093	select	Å	8.6	<2 .	679	760	1.5 7%	gerey, white skam, 1% sphalerite, trace chalcopyrite, limonite
094	grab	<5	3.6	2	450	76	468	bioulders, grey, green skam, 1% pyrite, trace chalcopyrite, limonite
095	grab	45	<0.2	2	7	6	300 94	garrey, bleached, hornfeled argilite, rusty fractures
096 097	grab grab	<5 <5	0.6	2 8	23 102	<2	40	-garey, hom/elsed argilitie, 1-5% pyrite on fractures, minor calcite
098	grab	<5	<0.2	~	33	2	48	garey, green, fine grained dyke, 3-5% magnetite, Hedley dyke
099	float	<5	0.0	2	102	444	706	wweak skarn, white calcite, limonite, trace sphalerile on fractures
100	sciect	<5	4.4	~2	1	5710	5960	Sight grey skam, white calcite, orange limonite
101	ficat	<5	1,4	<2	38	2000	3720	cl.ark grey, weak skarn, while calcile
102	grab	10	1.2	2	73	20	220	reusty, glassy, hom/elsed argilite, 1-2% pyrite
103	grab	10	1.4	2	96	6	690	musely, weakly homfelsed anglitite, calcite on fractures, trace pyrile
104	ficat float	10	0.8	2	47	18 <2	344 580	spiriticified limestone, to 5% pyrite locally millicified limestone, minor argilite, trace to 5% pyrite locally
106	grab	10	1.2	24	60	12	238	r usty argillite, 2% pyrite
107	grab	<5	0.8	<2	81	<2	42	sufficient Copperfield breccia, minor argittite, 1% pyrite
108	grab	<5	1.0	10	80	2	118	Grey-black, hornfelsed argilitte, silicified, to 5% pyrite locally
109	grab	70	1.8	16	81	2	416	white, dark grey, rusty, Copperfield breccia, sticified, 2% pyrite
110	grab	5	1.0	12	63	6	458	grey, white, rusty, Copperfield breccia, silicified, 2% pyrite
111	grab	<5	0.4	18	58	10	182	Eslack limestone, rusty argilite, 2-4 mm calcite veinlets, 2% pyrite
112	grab	<	0.4	2	12	10	42	grey-black limestone, 1-5 mm white calcite vyinlets, rusty fractures green, grey homblende dyke, 1-2% pyrite, Hepley dyke?
113 114	grab grab	<5 <5	<0.2 0.8	92 6	15 54	6 16	250	reusty argillite, silicified limestone, 1-10% pyrke
115	float	45	2.0	26	56	16	40	milicified limestone, glassy argillite, fractures with calcite, pyrite
116	float	<	0.2	2	7	10	6	liemestone cut by veinlets of black calcite
117	float	15	2.2	16	89	16	286	Phornfelsed argilite, limestone, calcite veiniciti, 2-4% pyrtle
118	grab	<5	1.2	8	39	8	44	Bight-dark grey silicified? Copperfield breccia, trace pyrile
119	grab .	10	1.0	16	61	10	30	Tiight grey silicified? Copperfield breccla, rush
120	grab	<5	0.4	24	55 93	12 6	112	alassy, homfelsed argilite, rusty, 1-3% pyrite alassy, homfelsed argilite, rusty, 1-3% pyrite
121	grab grab	10 <5	0.8	28 <2	16	154	158	weak skam, stronger on fractures, 1-4% pyrite black sulphide?
123	grab	<5	<0.2	<2	23	22	136	grey, green skarn, rusty fractures, brown garnet
124	grab	<5	<0.2	<2	26	14	250	• mninor grey skam, 5-10% pyrile,
125	grab	<5	0.2	<2	25	6	176	grey skarn, silicification, 2-5% pyrite, weak green alteration
126	ficat	<5	<0.2	<2	4	4	18	argilite with quartz veinlets, rusty fractures
127	grab.	<5	<0.2	~	19	10	198	minor green skarn, white calcite, to 5% pyrile
128	grab	<5	0.4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	63 26	6	76 54	Promielsed argilitie, some silicification, to 5% pyrite Ebleached, Hedley dyke, rusty on weathered surface
129	grab	<5 <5	02	- <u>-</u>	46	10	126	= usty argilitte, 1-2% pyrite, minor unaltered limestone
131	grab	<5	0.6	10	61	12	100	rusty argittle, 1-3% pyrite, minor unaltered limestone
132	grab	10	0.8	~	85	8	50	sulicified limestone, trace to 5% pyriholite, trace of chalcopyrite?
133	grab	5	0.2	~	36	6	40	spelective silicification of limestone, 2-5% pyr/hotile on fractures
134	grab	5	0.4	12	46	<2	64	white, silicified Copperfield breccia, irregular, 1% pyrrhotite
135	grab	10	0.6	10	80	6	42	•clark grey stolcified Copperfield breccia, runty
136	grab	60	2.4	66	56	12	52	-dark grey silicified Copperfield breccia, 1-4% pyrite, irregular grey silicified skarn? minor green, 1-4% pyrite, while calcite
137	ficat	10	1.2	18	85	2 18	36	grey slicified skarn? 2-4% pyrite, trace pale pink alteration
138 139	grab grab	50 20	3.0	10	71	6	26	grey-black silicified skarn? White calcite, 1-4% pyrite
140	grab	<5	0.8		45	6	250	grey silicified Copperfield breccia, calcite, trace pyrite, pyriholite
141	grab	<	0.6	<2	78	6	64	grey-black silicified skarn? Copperfield breccia ,1-4% pyrrhotite
142	grab	10	0.#	2	44	2	42	grey silicitied skarn, Copperfield breccla, 10% pyrrhotite
143	grab	<5	0.6	2	35	6	32	grey skam? Narrow argilite bods, 1/2% pyrife
144	grab	<5	<0.2	2	10	6	26	white calcile, grey silicified zones, trace sulphides
145	grab	<5	0.6	2	57	2	28	minor argilite and white marble, grey silicification, trace sulphides
146	grab	5	1.0	2	43	8	28	grey silicified skarn, Copperfield breccia, pyrite on fractures
147	grab	<5	0.8	<2	17	<2	16	grey allicitied skam, Copperfield breccia, pythe on fractures
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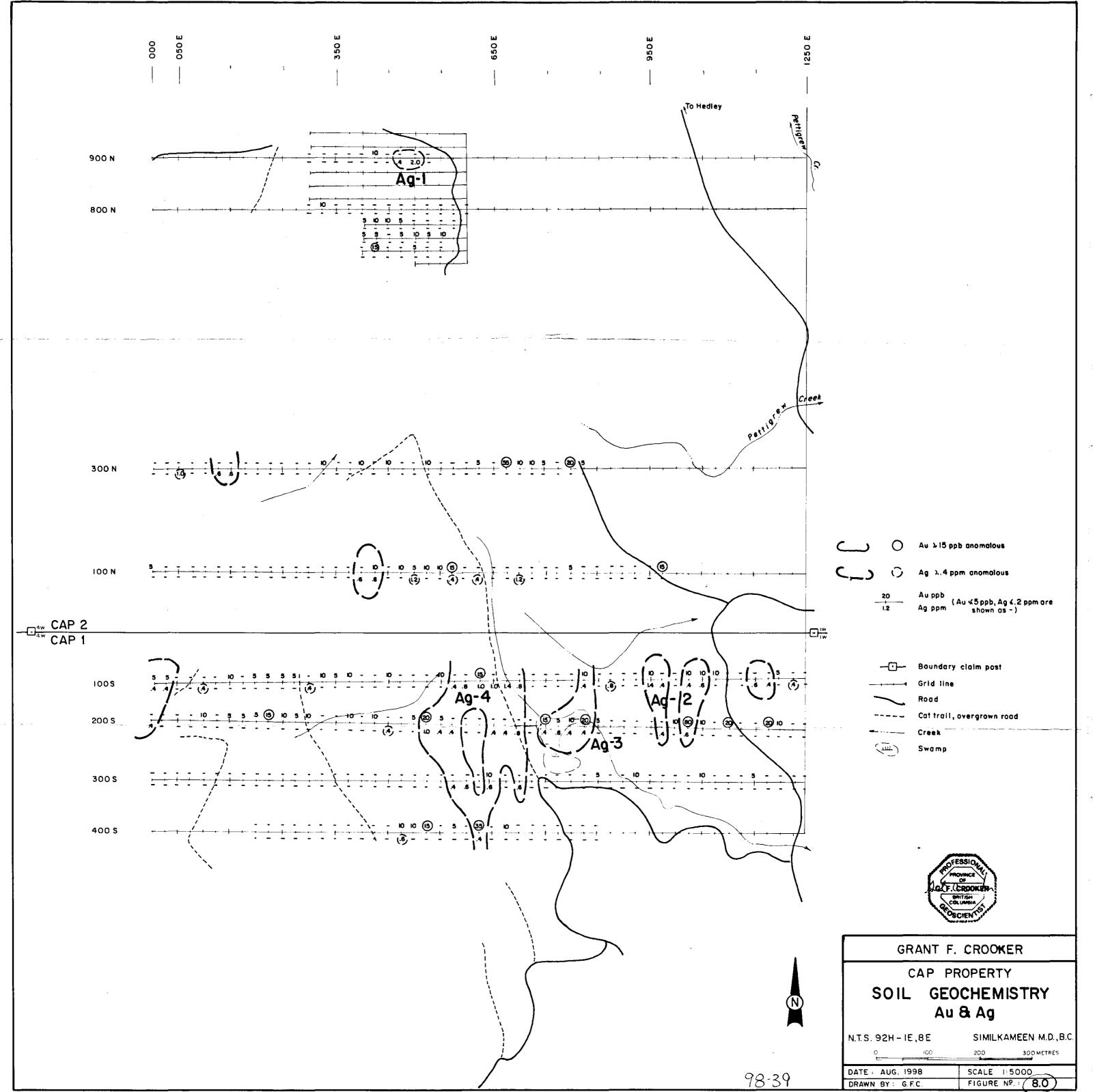
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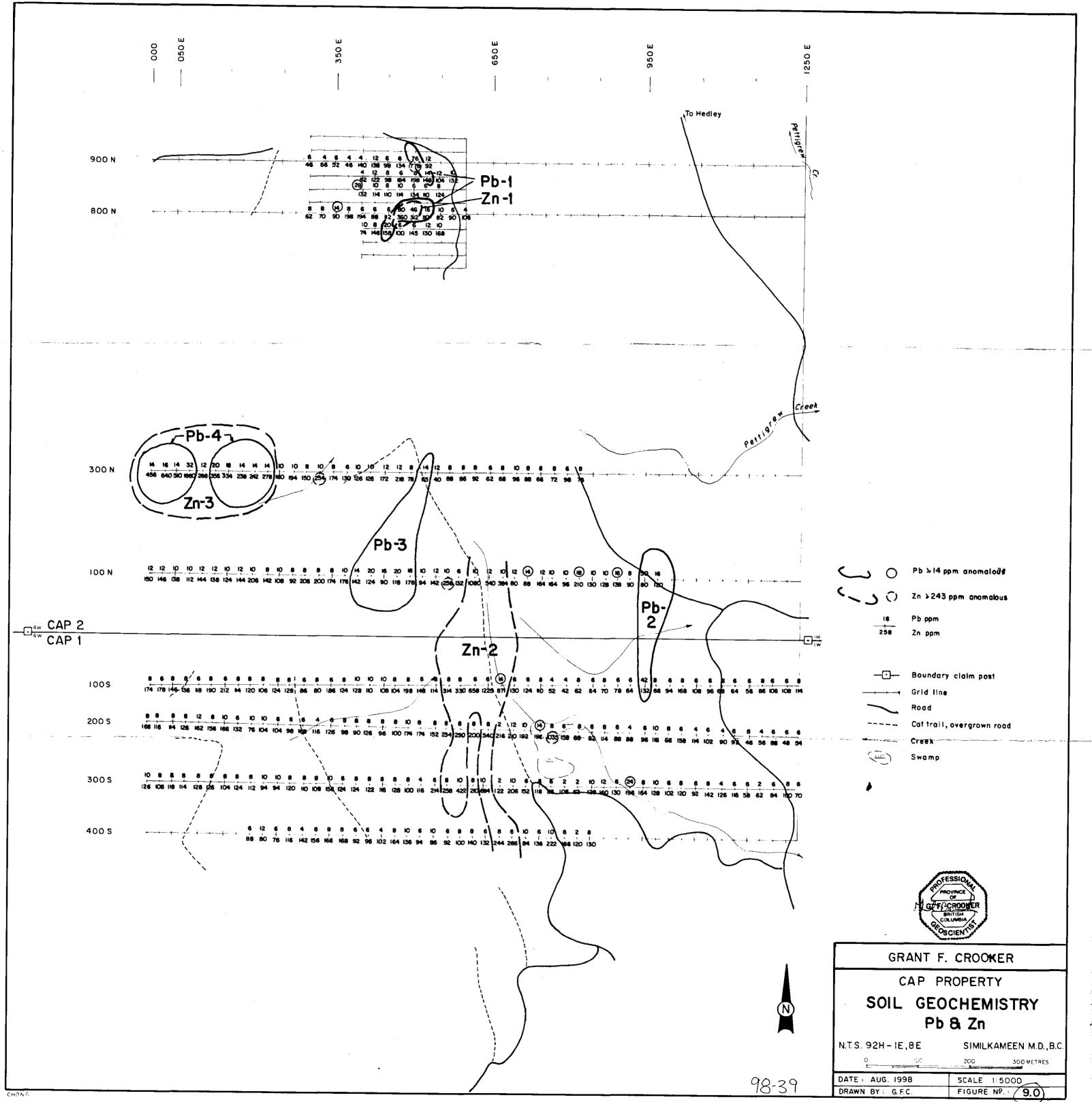
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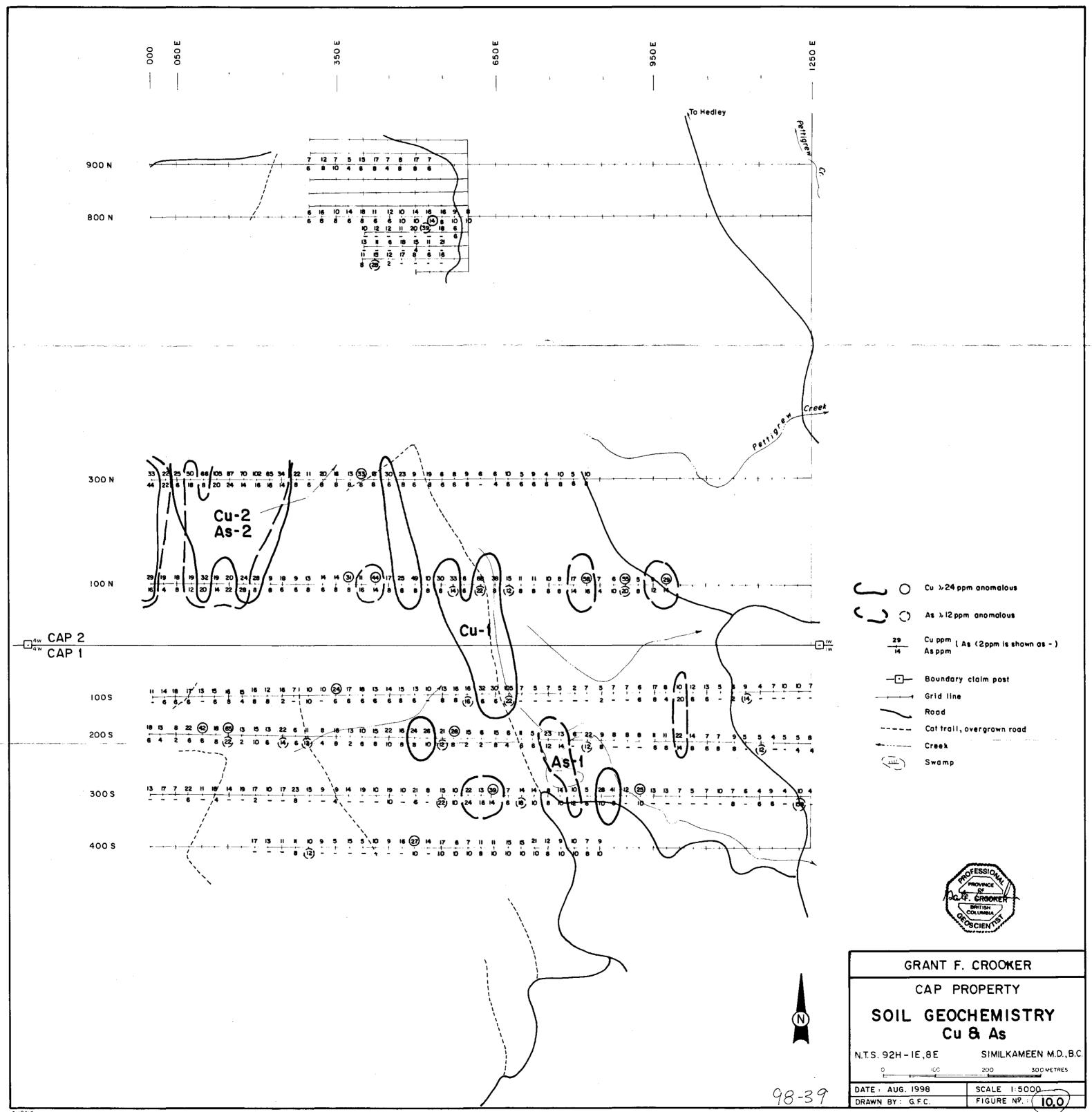
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