## **PROSPECTING REPORT**

## ON

## SOIL SAMPLING

## OVER THE

### <u>CP PROPERTY</u>

## **CORBETT LAKE AREA**

## NICOLA MINING DIVISION, BRITISH COLUMBIA

PROPERTY LOCATION	:	CP # 1-12 are along the eastern shore of Corbett Lake
		50° 1' 22"N
		120° 37'W
		92I/2E
WRITTEN FOR	:	CORBETT LAKE MINERALS, INC.
		Suite 1500, 885 W. Georgia St.
		Vancouver, B.C. V6C 3E8
WRITTEN BY	:	GERRY DIAKOW
		6 <sup>th</sup> Floor, 1100 Melville Street
		Vancouver, B.C. V6E 4A6
REVISED	:	April 10, 2000
		GFOLOCICAL SURVEY BRANCH
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## **Summary**

The CP claims were prospected, mapped and soil sampled in a one pass traverse. The property was visited on four consecutive days starting on December 6, 1999 and completing the work on the morning of December 9, 1999. During these visits permission was obtained from 2 cattle companies and one fishing lodge to access the mining claims, three thousand five hundred meters of grid were surveyed and soil samples were taken. The soil samples were assayed at the Acme Analytical laboratories using a 30 element aqua regia digestion and a geochemical gold (10gm) analysis. All outcropping rocks were mapped and prospected with particular attention paid to any visible sulphides. The "Porcupine occurrence"B.C. mineral inventory number 092ISE054 was visited on the morning of December 9, 1999 the former property is 500 metres north of the CP claims and road access to the property is from the CP #3 claim.

## Conclusion

- The CP claims are along strike and have similar geology to the adjacent Porcupine showing. The "Porcupine" showing has drill indicated reserves reported as 125,179 tonnes grading 2.0 per cent copper and inferred (possible) reserves as 453,550 tonnes grading 1.0 per cent copper (Northern Miner 1967, 1969).
- The 1999 soil sampling program indicates anomalous gold values associated with volcanic breccia and possibly along the fault extension from the "Porcupine " Showing.

## Recommendations

- 1. The remaining grid work should be completed on the CP claim group.
- Soil sampling the enlarged grid should be completed using the same sampling interval (100 meter).
- The claim group should be geologically mapped referencing the the geology onto the soil sample grid.

## Introduction

This report discusses soil sampling and geological mapping along a grid on the CP claims. The CP claims are located east of Corbett Lake, 10 miles southeast of Merritt, British Columbia (figure 1).

Work was carried out on the following claims:

CP # 1 - Record # 367816 CP # 3 - Record # 367818

CP # 5 - Record # 367820

This work was applied to the CP claim group resulting in the claim group remaining in good standing until February 10, 2002.

The grid survey, soil sampling and prospecting mapping was carried out by Gerry Diakow a mineral exploration technician from December 6, to December 9, 1999.

The initial grid work resulted in 3500 meters surveyed and soil sampling 39 location at 100 meter intervals (Map 1 - in pocket). Rock outcrops were prospected and mapped onto the soil sample grid (Map 2 in pocket).

Reviewing Mr.S.F. Kelly's 1968 geochemical survey records show samples were not assayed for gold in the past(B.C. MM Assessment Report 962). However Christopher James Gold Corporation's property south of the CP claims is being evaluated as a Cu-Au prospect.

The last geochemical survey undertaken in the Corbett Lake area is a 1968 geochemical survey done under the guidance of Mr. Kelly a mining engineer.

Gold analysis was done for all soil samples from the CP claims in the 1999 survey.

## **Location and Access**

The group of 12 mineral claims, belonging to Corbett Lake Minerals, Inc. are located at the northeast end of Corbett Lake, 10 mile southeast of Merritt, British Columbia (Figure 1).

Access to the claims is attained by getting permission from the Quilchena Cattle Co to use their wire gate. A gravel road runs easterly from highway 5, skirting the north end of Corbett Lake and curving around the south slope of the hill lying east of that lake.

# **Property Status**

The property consists of 12 contiguous mineral claims comprising 300 hectares in the Nicola Mining Division. (Map number 92I02 East).

Claim Name	<b>Record</b> #	Expiry Date
CP # 1	367816	February 10, 2002
CP # 2	367817	February 10, 2002
CP # 3	367818	February 11, 2002
CP # 4	367819	February 11, 2002
CP # 5	367820	February 11, 2002
CP # 6	367821	February 11, 2002
CP # 7	367822	February 11, 2002
CP # 8	367823	February 11, 2002
CP # 9	367824	February 11, 2002
CP # 10	367825	February 11, 2002
CP # 11	367826	February 11, 2002
CP # 12	367827	February 11, 2002



The area is one of rolling, upland pasture with small stands of poplar, fir and pine. The altitude goes from about 3,500 feet at Corbett Lake to 4,100 feet at the shaft on the "Porcupine showing" and slightly higher towards the north, approaching the summit of Nicola Mt.

The Nicola Lake area lies in the intermontane belt and is part of the Quesnel Terrain. It is underlain primarily by the late Triassic arc volcanic rocks and volcanogenic sedimentary facies of the Nicola Group.

Mount Nicola which lies 2 miles north northeast of the CP claims consists of an assemblage of red brown, plagioclase basaltic flows and associated breccias, (Preto 1979). The Nicola Group rocks have been intruded by Triassic - Jurassic plutons and the Nicola rocks are overlain unconformably by clastic sedimentary and volcanic rocks ranging in age from Jurassic to Tertiary that are less altered but rotated to steep altitudes on mainly extensional faults ( Monger and McMillian1989).

## History

Soil geochemistry at the north end of Corbett Lake indicates a large copper anomaly. The original grid work was undertaken in April 1968 by S.F. Kelly. Copper values over 70 ppm are considered anomalous over 100 ppm are very anomalous.

Contouring this grid indicates an anomalous Cu zone measuring 3000 feet in length and 2000 feet wide in the Nicola Volcanics. In the southwestern part of this area there are wide

variations in suites of samples taken from the same vicinity of a given station, with ranges from "background" to hundreds and even thousands of ppm within a radius of fifty feet. These results lead to the suspicion that the values may be due to erratic contamination by copper bearing float, or to irregular capture of copper salts from circulating waters by clay pockets.

Geophysical work has been done on the eastern side of Corbett and Courtney Lake. This work indicated induced potential anomalies parallel to the eastern shoreline of these lakes. The geophysical anomalies from east of Corbett and Courtney Lake, may be connected with the large geochemistry anomaly at the north end of Corbett Lake (B. C. Minister of Mines assessment report # 962). At the time these surveys were done, the areas were two separate unrelated mining properties.

## **Discussion of Soil Sample results**

The exploration work started in December 1999 needs to be completed before any definite geochemical anomalies can be outlined, however three soil samples returned high gold values.

ADE ANUTICAL	í No	Cu	Pb	Zn	Ag	NI	Ca	Hn	Fe	As	U	Au	Th	\$r	Cd	SP	81	v	Ca		<del></del>				<b>.</b>		<u></u>				WALYTICAL
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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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852 East Hastings Street • Vancouver, British Columbia • CANADA • V6A 186 Telephone: (604) 253-3158 • Fax: (604) 253-1716 • Toll free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

### METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 3A - AU BY WET EXTRACTION



#### Comments

#### Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drift core are crushed and pulverized to 95% -150 mesh (-100 microns). Plant samples are dried (60°C), pulverized or ashed (550°C). Sediment in moss mats is recovered by disaggregating and sieving to -80 mesh. Sample splits of 10 gm to 150 gm are weighed into glass beakers. Duplicate splits of crushed (reject duplicate) and pulverized (pulp duplicate) material included in every 34 drill core or trench samples define preparation (reject duplicate) and analytical precision (pulp duplicate). Duplicate pulp splits (only) are included in every batch of soil, sediment and routine rock samples. A blank and in-house standard reference material STD FA-100 are carried through all stages of the analytical methodical to monitor accuracy. STD FA-100 has been certified in-house against certified reference materials.

#### Sample Digestion and Extraction

Aqua Regia is a 2:22 mixture of ACS grade conc. HCl, conc. HNO<sub>3</sub> and distilled H<sub>2</sub>O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hr in a boiling hot water bath (95°C). For Graphite Furnace AA analysis, MIBK is added and the samples are shaken to extract Au into the MIBK phase.

#### Sample Analysis

ICP-MS (Perkin Elmer Elan 6000) analysis is conducted on the acid solution to determine Au ± Pt. Graphite furnace AAS (Varian model SpectrAA 10Plus) is conducted on the MIBK extract to determine Au.

#### Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who must sign the analytical report before release to the client. Chief assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang..

Document: Methods and Specifications for New Group 3A.doc

Date: Feb 3, 2000

Prepared By: J. Gravel

02-03-00 16:49

### STATEMENT OF QUALIFICATION STEPHEN G. DIAKOW

- 1. I attended Vancouver City College and the University of British Columbia completing courses leading to a B.Sc in chemistry.
- 2. Studied Civil and Structural Engineering at British Columbia Institute of Technology.
- I have worked in Mineral Exploration for the past 34 years. Including the major companies Union Carbide Mining Exploration, Canadian Superior Mining Exploration and Anaconda Mining Exploration.
- 4. I have received 3 British Columbia prospector assistance grants, the first from Dr. Grove in 1975 and last in 1998.

#### S.G.DIAKOW

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### **AFFIDAVIT OF EXPENSES**

Prospecting and soil sampling was carried out within the CP #1,3,5 claims belonging to Corbett Lake Minerals, Inc., from December 6 to December 9 1999 located at Corbett Lake Nicola Mining Division, British Columbia, to the value of the following:

### Mob/Demob:

Wages 1 man, <sup>1</sup>/<sub>2</sub> day @\$300/day \$150.00

#### Field:

1 men, 3 days @ \$300/day	\$900.00	
Room & board, 3 days @ \$140/day	\$420.00	
Truck & fuel,. 4 days @ \$125/day	\$500.00	
Field Supplies	\$ 50.00	\$2020.00

### Laboratory

Sample preparation and testing of:	
39 soil samples @ \$13.20	\$510.10

### **Report**

Grand total:

\$2530.10

Respectfully submitted,

A. D. O inkon

S.G. Diakow Project Manager

500 W	N 004	300 W	200 W	100 <i>w</i>	Baseline	100 E	200E	300 E	400 E	500E	600E	700E	800E
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