EXPLORATION NTS: 82M/13E

### GEOCHEMICAL ASSESSMENT REPORT ON THE

CK GROUP OF MINERAL CLAIMS

KAMLOOPS MINING DISTRICT, B.C.

LATITUDE: 51<sup>0</sup>56' LONGITUDE: 119<sup>0</sup>35'

DURING MAY 27 - SEPTEMBER 18, 1980

UNDER SUPERVISION OF Z.T. NIKIC, SENIOR GEOLOGIST

OWNER AND OPERATOR: COMINCO LTD.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO.

M.R. MURRELL

**OCTOBER 1980** 

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WESTERN DISTRICT

EXPLORATION NTS: 82M/13E

#### GEOCHEMICAL ASSESSMENT REPORT

#### CK GROUP OF CLAIMS

#### KAMLOOPS MINING DIVISION

## I INTRODUCTION

#### Location

The CK group of mineral claims is located in the Kamloops Mining Division, forty-three kilometres northeast of Clearwater, B.C. The property is on either side of the Raft River, centred on the junction of the Raft River with Kowalski Creek. It is 24 km long by 7 km wide.

#### II ACCESS

The town of Clearwater is located on the Trans Canada Highway, 130 km north of Kamloops. Access from Clearwater to the CK property is by 65 km of excellent gravel logging roads along the Raft River. Several logging roads provide access to some of the showings areas, but much of the property is accessible only by foot or helicopter.

#### III TOPOGRAPHY

Much of the CK group of claims consist of fairly steep tree and brush covered side hills. The higher portion is flat to rolling, containing scattered swampy areas.

#### IV PROPERTY DEFINITION

#### <u>History</u>

1973	- Discovery of mineralized boulders and in-place mineraliza-
	tion by Andy Horne, Chase, B.C.
1974, 1975	- Optioned by Rio Tinto - Airborne EM; geochemistry, I.P.,
	minor magnetometer work, and 7 diamond drill holes.
1976	<ul> <li>Sicintine Mines - backhoe trenching on one showing.</li> </ul>
1977	- Optioned by Cominco.
1978	- I.P., magnetometer, VLF, minor geochemistry, Cat trenching,
	diamond drilling (20 holes).
1979	- Geological mapping (1:5,000, 1: 0,000), I.P., magnetometer,
	large geochemical program, diamond drilling (18 holes).

#### Current Owner and Operator

Cominco Ltd., 200 Granville Square, Vancouver, B.C.

Geochemical Assessment Report on the CK Group of Mineral Claims/ Page 2

#### Economic Assessment

Work to date has shown the probable existence of a long mineralized Zn/Pb body. The usual width is not of mineable thickness, however local folding may have produced significant thickening of the zone. Much more work is required to determine the economic significance of the mineralized zone.

#### Extent of Claims Covered by This Report

See Appendix "A".

#### V SUMMARY OF WORK DONE

Two thousand and twenty-seven geochemical samples were collected on the property and analysed for lead and zinc. Topographic control was based on a 1:5,000 topographic map prepared by McElhanney Surveying. Grid control was by hip-chaining, compassing and altimeter reading.

#### VI GEOLOGY

The claims are underlain by metasedimetrs and intrusives of the Shuswap Metamorphic Complex. Exposure is quite poor over much of the claim group, but mapping has suggested that limy and siliceous calc-silicates, biotite gneisses, marbles, and pegmatite underlie the extensive overburden. Several showings have been found, most have an associated geochemical expression.

#### VII GEOCHEMISTRY

A total of two-thousand and twenty-seven soil samples were taken from the CK group of mineral claims during 1980.

#### Sample Location

Soil samples were taken from the B horizon, when it could be identified, otherwise the sample was taken usually at 10 to 30 cm deep. Samples were dug by shovel and retrieved by plastic spoon. They were placed in standard kraft soil sample bags and marked for identification. Each sample located was marked in the field by a grid numbered pink flagging. Ground control was by hip chain and compass. Only a minor amount of cut lines were utilized.

#### Sample Preparation

Samples were air-dried and shipped to Cominco's Lab in Vancouver for analyses. There they were oven dried, seived and the minus 80 mesh fraction analysed by hot acid digestion and atomic absorption.

#### Presentation of Data

The results are plotted on topographic maps at scale of 1:5,000. Anomalous values for zinc are considered to be greater than 200 ppm; and anomalous lead values are considered to be greater than 40 ppm. These results are contoured on the accompanying maps.

### VIII CONCLUSIONS

The purpose of the geochemical program was to help in the location of possible economic bodies of zinc and lead. Results are plotted on the enclosed geochemical maps.

A few zones containing values anomalous in zinc and lead were discovered during 1980. These values were sometimes associated with several of the known showings on the property. No follow-up work has yet been carried out to explain the source of the other anomalies.

#### IX ATTACHMENTS

- a ) Appendix "A" - Statement of Expenditures Appendix "B" - Statement of Qualifications b)
- Scale 1:50,000 with index to geochemical sheets. c) Location Map
- d) Geochemical Maps Sheet 1 Scale 1: 5,000 Sheet 2 - Scale 1: 5,000

Sheet 3 - Scale 1: 5,000 Sheet 4 - Scale 1: 5,000

Sheet 5 - Scale 1: 5,000

Report by:

M.R. Murrell Project Geologist

Endorsed by:

Z.T. Nikic

Senior Geologist

Approved for Release by:

G. Warden, Manager

Exploration

Western District

C A N A D A
PROVINCE OF BRITISH COLUMBIA
TO WIT:

#### STATUTORY DECLARATION

I, ROBIN LAWSON WOODS, of the District of North Vancouver, in the Province of British Columbia, DO SOLEMNLY DECLARE THAT:

- 1. I am the Supervisor, Exploration and Foreign Accounting for Cominco Ltd., 2300 200 Granville Street, Vancouver, British Columbia, and, as such have knowledge of the facts deposed to herein.
- 2. Attached to this Statutory Declaration, as Schedule A, is a statement of expenditures indicating the expenditures charged by Cominco Ltd. to the CK Property account for the period January 1, 1980 to October 31, 1980.
- 3. The statement of expenditures referred to in paragraph 2 is true and accurate to the best of my knowledge, information and belief.
- 4. This Statutory Declaration is made in support of an application for credit as assessment work pursuant to the Mineral Act of British Columbia.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the City

of Vancouver in the Province

of British Columbia, this 12th

day of November

نا 198

Robin Lawson Woods

A Commissioner for taking

Affidavits for British Columbia

Anthony Allen Zoobkoff
A Commissioner for taking
Affidavits for British Columbia.

This is Schedule A referred to in the Statutory Declaration of ROBIN LAWSON WOODS declared before me this Zthday of November, 1980.

A Commissioner/

Affidavits for British Colu

Anthony Allen Zoobkoff

A Commissioner for taking

Affidavits for British Columbia.

## STATEMENTS OF EXPENDITURES

# CK PROPERTY KAMLOOPS M.D., B.C.

#### JANUARY 1, 1980 TO OCTOBER 31, 1980

Geology	\$ 59,850
Linecutting	2,559
Geophysics	13,273
Geochemistry	16,045
Diamond drilling	104,565
Transportation	11,681
Access	10,898
Camp costs	8,394
Tenure	11,988
Option payment	20,000
Communications	2,164
Administrative services	24,142
	\$285,559

Cominco Ltd.
Vancouver Office
November 12, 1980

Copies: Mining Recorder (2) Senior Technician

rile (2)

File (2)

Robin Lawson Woods
Supervisor, Exploration
& Foreign Accounting

## COMINCO LTD.

## EXPLORATION

## WESTERN DISTRICT

## C K PROPERTY

## KAMLOOPS, M.D., B.C.

## STATEMENT OF EXPENDITURES

## WORK PERFORMED JULY 5 - SEPT. 18,1980

TYPE OF WORK	DIRECT COST	CAMP COST	SUPERVISION & CORE LOGGING COSTS	TOTAL COSTS
Drilling .	\$ 104,565	\$ 5,950	\$ 37,600	\$ 148,115
Geochemistry	16,045	1,410	7,300	24,755
Road Const. & Acc. to Drill sites	10,898	1,034	4,950	16,882
Geophysics	15,832	-	-	15,832
	\$ 147,340	\$ 8,394	\$ 49,850	\$ 205,584

## C K PROPERTY

## WORK PERFORMED JULY 5 - SEPT. 18,1980

GROUPING	DRILLING	GEOCHEM.	ROAD	GEOPHYSICS	TOTAL	
CK80-1	\$ -	\$ 1,637	\$ 4,000	\$ -	\$ 5,637	
2	-	4,852	-	744	5,596	
3	-	7,906	_ ·	930	8,836	
4	-	7,021		10,044	17,065	
5	40,896	-		-	40,896	
6	29,586	1,733	2,176	3,525	37,020	
7	72,700	1,052	-	-	73,752	
	\$ 143,182	\$ 24,201	\$ 6,176	\$ 15,243	\$ 188,802	

TOTAL VALUE OF WORK DECLARED

GR.Ck 80 1 - 7

\$ 188,802

CK 79-3 Suppl.

3,000

CK 79-7

8,700

Cost Statement in Assessment Report to be Minimum.

\$ 200,502

PAC	APPLIED:		WORK APPLIED	WORK & PAC APPLIED
Credit +	Applied			
\$ 37.000	\$ 304.00 1,264.00 3,735.00 9,504.00 7,156.00 14,448.00	CK 80-1 80-2 80-3 80-4 80-5 80-6 80-7	\$ 3,400.00 5,596.00 8,836.00 17,065.00 40,896.00 36,844.00 73,752.00	\$ 3,400.00 5,900.00 10,100.00 20,800.00 50,400.00 44,000.00 88,200.00
	\$ 36,411.00		\$ 186,389.00	\$ 222,800.00

Acutal	PAC A	lq/	ol i	ied

\$ 36,411.00 - 37.00

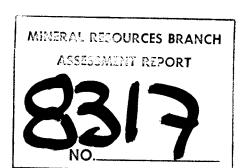
\$ 36,374.00

## Tenure Fees

N/G 7 @ \$5.00 Fees 5% of Assessment work value 35.00

11,140.00

\$ 11,175.00



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#### APPENDIX "B"

#### STATEMENT OF QUALIFICATIONS

I, MICHAEL RAY MURRELL, hereby declare that I was graduated from the University of Alberta with an Honours B.Sc. in geology during May 1966. During my undergraduate summers I was employed on geological programs by B.A. Oil (now Gulf Oil), and by a small mining company. Upon graduation I joined Cominco Ltd. and have been engaged in many aspects of mining exploration since that time.

Dated this 30.4 day of October 1980 at Vancouver, British Columbia.

Signed:

M.R. Murrell

Project Geologist

