

COMINCO LTD.

EXPLORATION
N.T.S. 921/9W

WESTERN DISTRICT
23 MARCH 1978

ASSESSMENT REPORT

PERCUSSION DRILLING

AND 3 M.C. (RECORD NO. 315)

MCLEOD LAKE AREA
KAMLOOPS M.D., B.C.
LONGITUDE: 120°19'
LATITUDE : 50°33'

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

6674
NO.

INTRODUCTION

Cominco Ltd. is the owner and operator of this claim situated in the open range land 12 km south of the City of Kamloops. Access is via all weather road from Knutsford on Highway No. 5. The property is believed to be underlain in entirety by Tertiary Kamloops Group volcanics which are indicated to cap Upper Triassic volcanics and intrusives of the Nicola Group and Iron Mask Batholith, respectively. The general geological setting suggests a potential for the occurrence of alkaline type porphyry deposits in the area. AND 3 M.C. was located by Cominco Ltd. in 1976. Previous work by Cominco Ltd. consisted of geological mapping at the scale of 1"=1000' plotted on an enlargement of the attached 1:50,000 scale topographic map.

The present work consists of 106 m (350 feet) of percussion drilling in a single vertical hole. This hole was drilled for geological information. A brief examination of selected drill cuttings was done with the help of a binocular microscope. This indicated the probable nature of the bedrock formations encountered in the hole. The copper content of the hole was determined by assaying samples taken at regular intervals. The assaying was done by routine atomic absorption at the Cominco Laboratory in Vancouver.

TECHNICAL DATA

The purpose of the drilling was to determine the approximate thickness of the Kamloops Group in the area and the probable nature of the underlying formation.

The attached topographic map at a scale of 1:50,000 shows the position of the hole. Coordinates determined from the above map with the aid of a ¼-mile scale air photograph are 120°18'50" W longitude and 50°33'00" N latitude. The collar elevation is 1060 m (3500 feet). The attached topographic map is adequate for locating this single drill hole on the ground and is the best topographic base available to Cominco of this area.

LITHOLOGY

<u>Interval m (feet)</u>	<u>Description</u>
0 - 1 m (0-3)	Overburden
1 m - 49 m (1-160)	Rock fragments of red, black and green vesicular and amygdaloidal basalt. Red fragments predominate in the uppermost samples, these give way to dark grey and black and green fragments. Amygdules are chlorite, carbonate and zeolite. This material resembles Kamloops Group volcanics outcropping in the area.
49 - 55 (160-180)	Lithic and crystal tuff variously oxidized. Abundant rounded quartz grains. This interval is thought to be a basal sedimentary unit.
55 - 106 (180-350)	Pyroclastics. Largely crystal and lithic and crystal-lithic tuff with some dark green and black aphanitic volcanics of undetermined origin. Abundant evidence of devitrification in the tuff. A few grains of pyrite and chalcopyrite. This interval is thought to represent the Nicola Group. In the area drilled the Nicola appears to consist of intercalated pyroclastics and flows. These metal values are very low compared to those of more typical Nicola Group lithologies.

CONCLUSIONS

To date no economic concentration of mineralization has been indicated on the AND 3 M.C. However, further work should be carried out now that an estimate of the thickness of the Kamloops volcanics in the area is available. It would appear that the Kamloops volcanics thin in a northerly direction. Having now obtained an estimate of what might be considered an intermediate to thick section of Kamloops volcanics for the area, geophysical surveys

could now be selected which would maximize the chances of detecting the occurrence of a blind copper deposit occurring under the Kamloops volcanic capping on the property.

Report by: Ragnar U. Bruaset
R.U. Bruaset,
Project Geologist

Endorsed by: D.W. Heddle
D.W. Heddle, P.Eng.
Assistant Manager

Approved for
Release by: G. Harden
G. Harden, Manager
Exploration, Western District

RUB:gk

Attachments:

Topographic Map - Scale 1:50,000
Assay Results

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

IN THE MATTER OF THE B.C. MINERAL ACT
IN THE MATTER OF A PERCUSSION DRILLING PROGRAMME
CARRIED OUT ON THE AND PROPERTY
LOCATED IN THE MCLEOD LAKE AREA
IN THE KAMLOOPS M.D.
PROVINCE OF BRITISH COLUMBIA
MORE PARTICULARLY N.T.S. 92I/9W

A F F I D A V I T

I, RAGNAR U. BRUASET, of the city of Vancouver in the Province of British Columbia, make oath and say:

1. THAT I am employed as a geologist by Cominco Ltd. and, as such, have a personal knowledge of the facts to which I hereinafter depose;
2. THAT annexed hereto and marked as "Exhibit A" to this my affidavit is a true copy of expenditures incurred on percussion drilling on the AND Property;
3. THAT the said expenditures were incurred between the 17th day of March - 23rd day of March, 1978 for the purposes of mineral exploration on the above noted property.

SWORN BEFORE ME AT THE CITY)
OF VANCOUVER IN THE PROVINCE)
OF BRITISH COLUMBIA THIS)
____ DAY OF _____, 1978)

Ragnar U. Bruaset
RAGNAR U. BRUASET

SUB-RECORDER

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT
23 MARCH 1978

EXHIBIT "A"

COST STATEMENT

Direct Drilling Costs

At Miller Percussion Drilling 106 m (350 feet) \$1,292.00

Indirect Costs

Salary - R.U. Bruaset March 17, 20, 21, 23 (4 days) 410.00

Frank Ferguson March 20, 21 (2 days) 165.50

Bulldozer rental, transport - Denis Scallon, Kamloops, B.C. 401.50

Transportation (air fare, truck rental, repairs, fuel) 186.22

Domicile 110.00

Analysis 108.80

\$2,674.26

Cost/meter \$25.23

Cost/foot \$7.64

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EXPLORATION

WESTERN DISTRICT
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STATEMENT OF QUALIFICATIONS

I, RAGNAR U. BRUASET, with business address at 409 Granville Street, Vancouver, British Columbia, V6C 1T8, do hereby certify that I have supervised the percussion drilling programme on the AND Property.

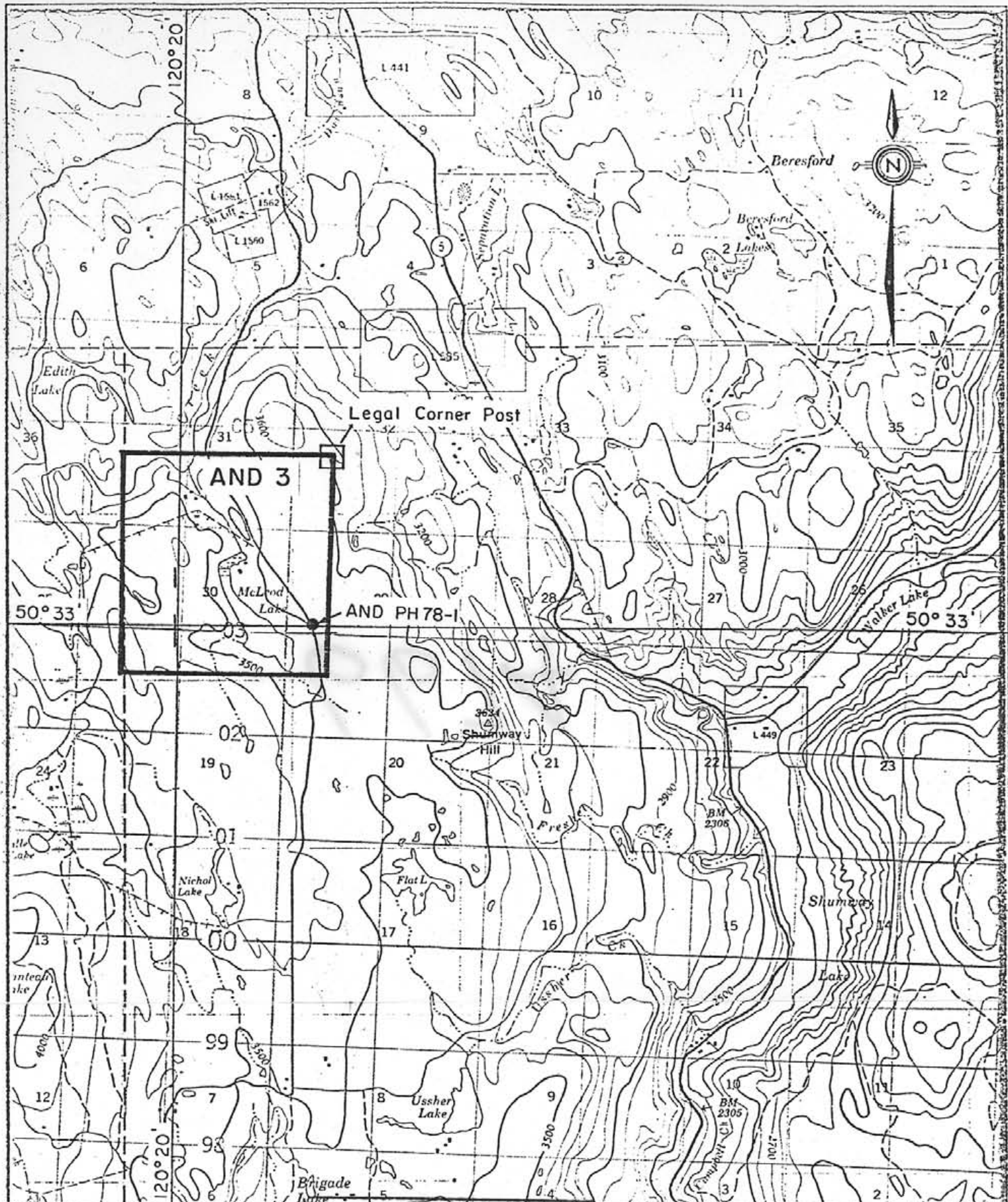
I also certify that:

1. I am a graduate of the University of British Columbia with a degree of B.Sc. in Geology 1967.
2. That I have been involved in exploration work for Cominco Ltd. since 1967 and that I have been involved in all phases of porphyry copper exploration and development since 1968 to the present.
3. That I have been closely involved with the exploration work on the AND Property during the period 1976 to 1978.

Respectfully submitted: *R.U. Bruaset*
R.U. BRUASET, B.Sc.
Project Geologist

AND PERCUSSION HOLE 78-1					CU ppm
3	R78 01046	87001	I	3' - 20'	46
4	R78 01047	87002	I	20' - 30'	48
5	R78 01048	87003	I	30' - 40'	45
6	R78 01049	87004	I	40' - 50'	48
7	R78 01050	87005	I	50' - 60'	44
8	R78 01051	87006	I	60' - 70'	47
9	R78 01052	87007	I	70' - 80'	48
10	R78 01053	87008	I	80' - 90'	45
11	R78 01054	87009	I	90' - 100'	48
12	R78 01055	87010	I	100' - 110'	43
13	R78 01056	87011	I	110' - 120'	46
14	R78 01057	87012	I	120' - 130'	48
15	R78 01058	87013	I	130' - 140'	44
16	R78 01059	87014	I	140' - 150'	32
17	R78 01060	87015	I	150' - 160'	27
18	R78 01061	87016	I	160' - 170'	23
19	R78 01062	87017	I	170' - 180'	24
20	R78 01063	87018	I	180' - 190'	39
21	R78 01064	87019	I	190' - 200'	47
22	R78 01065	87020	I	200' - 210'	37
23	R78 01066	87021	I	210' - 220'	29
24	R78 01067	87022	I	220' - 230'	30
25	R78 01068	87023	I	230' - 240'	27
26	R78 01069	87024	I	240' - 250'	25
27	R78 01070	87025	I	250' - 260'	26
28	R78 01071	87026	I	260' - 270'	27
29	R78 01072	87027	I	270' - 280'	27
30	R78 01073	87028	I	280' - 290'	20
31	R78 01074	87029	I	290' - 300'	19
32	R78 01075	87030	I	300' - 310'	20
33	R78 01076	87031	I	310' - 320'	17
34	R78 01077	87032	I	320' - 330'	15
35	R78 01078	87033	I	330' - 340'	20
36	R78 01079	87034	I	340' - 350'	17
37	END OF HOLE				

CONTROL DATA CORPORATION PRINTED IN U.S.A.



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KAMLOOPS
KAMLOOPS DIVISION OF YALE LAND DISTRICT
BRITISH COLUMBIA
WEST OF SIXTH MERIDIAN - OUEST DU SIXIÈME MÉRIDIEN
Scale 1:50,000 Échelle

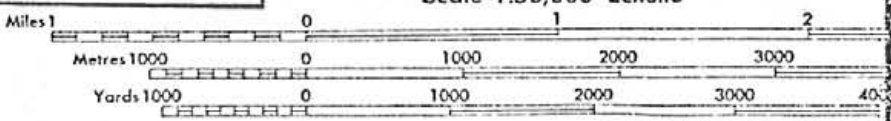
LEGEND



Property boundary



Percussion hole



To accompany report by R.U. Bruaset



92 1/9

Drawn by: RUB	Traced by:
Revised by: _____	Revised by: _____
Date: _____	Date: _____

PERCUSSION DRILLING
AND 3 MINERAL CLAIM
Kamloops Mining Division

Scale: 1 : 50,000 Date: March 23, 1978 Plate: