

COMINCO LTD.

EXPLORATION  
NTS 92I/9

WESTERN DISTRICT  
April 17, 1980

ASSESSMENT REPORT  
ON PERCUSSION DRILLING  
REG PROPERTY

(Ace 1, Reg 2, 12 and 14 Mineral Claims, Lot 1560)

KNUTSFORD AREA, KAMLOOPS, M.D.

(Work Performed August 3rd to 27th, 1979)

LATITUDE: 50°35'N

LONGITUDE: 120°19.5'W

REPORT BY:

R.U. BRUASET

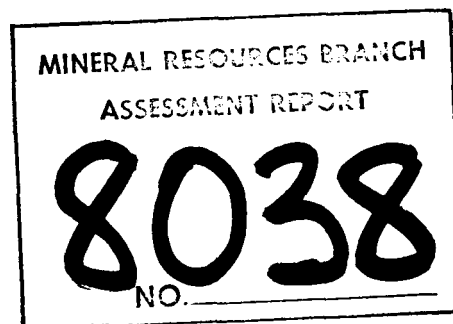


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INTRODUCTION

The Reg property is a porphyry copper-gold prospect in the southeastern area of the Iron Mask Batholith, an alkaline pluton with a history of copper-gold production. The property has undergone exploration by Cominco Ltd. since 1977 when the company optioned the property from Great Plains Development Co. of Canada Ltd.

SUMMARY

The objective of the 1979 program was to determine by means of percussion drilling whether or not open pit mineable copper-gold mineralization occurs in the central 350 m by 350 m area of an earlier tested I.P. anomaly containing scattered intersections of interesting Cu mineralization.

A total of 829 m (2720 feet) in fourteen vertical percussion holes was drilled. The program yielded several intersections of marginal mineralization including 15.2 m (50 feet) of 0.29% Cu in 79-1; 7.9 m (26 feet) of 0.33% Cu in 79-3; 9.1 m (30 feet) of 0.41% Cu in 79-8 and 3.1 m (10 feet) of 0.31% Cu in 79-10. These results are similar to those obtained in the 1978 drilling. There is no compelling reason at this time to believe that a commercial deposit exists between our percussion holes.

SURFACE RIGHTS

Surface rights in the area tested are controlled by Mr. Glen Shannon and Mr. Fred Pain. Pertinent surface rights are shown on Plate 1 with the prominent E-W fence marking the boundary between the Pain and Shannon properties on the north and south, respectively.

REGIONAL GEOLOGY

The property is located in the Merritt-Kamloops copper belt of southern B.C. Within this belt, the Upper Triassic Iron Mask Batholith intrudes coeval and comagmatic Nicola volcanics. Tertiary Kamloops Group clastic sediments and volcanics locally cap the Upper Triassic lithologies. The property is located in the southeastern area of the batholith.

Major systems of northwesterly and northeasterly trending fractures and faults controlled emplacement of the various units of the Iron Mask Batholith.

Copper and gold are the principal economic metals found in the batholith and occur in association with the two youngest batholith phases, the Sugarloaf and the Cherry Creek units. Known alkaine porphyry deposits include Afton, Nahathlatch and Ajax. Of these, the now producing Afton deposit is the largest with open pit reserves in the order of 30 million tons grading about 1.2% Cu and 0.9 g/ton Au.

#### PROPERTY GEOLOGY AND MINERALIZATION

The Sugarloaf unit - the second youngest in the batholith - is the principal lithology of the area tested. This is a fine to medium-grained "dioritic" intrusive characterized by euhedral mafics. The Cherry Creek unit is similar in grain size but tends to be "monzonitic" in composition with finer, less euhedral, mafics present. It is also the youngest phase.

Chlorite, after mafics, is the principal alteration noted in the drill cuttings. Plagioclase is frequently altered to a clayey material and this is often indicated by a milky white colour of the drill sludge.

Finely divided pyrite is ubiquitous usually in amounts greater than ½%. Pyrite is most abundant in areas of the strongest I.P. effect suggesting pyrite is the principal cause of the I.P. anomalies tested. To this can be added the effect of fine grain size which may enhance chargeability.

A zone of malachite, azurite and limonite was exposed at the collar of PH Reg 79-1 by Mr. Fred Pain during digging for water in 1979. This mineralization occurs in a strong fault zone striking 220° and dipping 70° westerly. The mineralization is controlled by fractures. The exposed width of the mineralized zone is about 9 m. An old adit was driven on this structure but no detailed information is available on the adit which was caved. The host rock is Cherry Creek unit containing traces of chalcopyrite and heavy pyrite. Strong K-spar development and epidote alteration are noted. Nearby percussion hole PH 12 drilled by Great Plains was apparently intended to intersect the "adit zone" and likely did as indicated by a 20 foot intersection of 0.35% Cu at or about the right depth in the hole. The size potential for this zone appears to be very limited indeed.

#### PERCUSSION DRILLING

Fourteen vertical holes totalling 829 m (2720 feet) were drilled. The depth of holes range from 24.4 m (80 feet) to 91.5 m (300 feet). Difficult ground prevented a number of holes from reaching the projected depth.

Conventional ten foot samples (3.1 m) representing a 1/16 split were collected in plastic refuse containers. Excess water was decanted after a settling agent had been added and the sludge allowed to settle. The remainder of the sludge was poured into sludge cutter bags for removal of most of the remaining water. The bags were then left to dry in the sun for a few hours. Dry samples contained in sludge cutter bags, were placed in plastic bags which were then taken to the Cominco Exploration Research Lab. for analyses.

Samples were run for copper at ten foot (3.1 m) intervals by geochemical techniques using aqua regia extraction with determinations on A.A. A few of the highest geochemical determinations were assayed for Cu. One composite was made up for each hole and run for Au and Ag reported in ppm and ppb respectively. The Au, Ag determinations were done by aqua regia solvent extraction and A.A. The determinations form Appendix "B" of this report.

Percussion cuttings were examined briefly at the drill site using 10x and 20x hand lenses. This is sufficient to determine rock type, type, quantity of minerals present and alterations, and this data is presented in Appendix "A" of this report.

CONCLUSIONS

A number of short intersections running at best a few tenths percent copper were encountered by the 1979 drilling. These grades and thicknesses are on par with those obtained in 1978 in the surrounding area and similar to those obtained by Great Plains to the northwest of our drilling. The essential difference between the results now and in 1978 is that little room is now left for ore within the area tested by our drilling to the depth tested. Our drilling does not rule out the existence of narrow high grade shoots which may exist between the holes. Some potential areas within lots 1560-62 remain untested.

RECOMMENDATION

Additional percussion drilling on the Reg property should be done within the 3% frequency effect line on lots 1560, 1561, and 1562. Access in this area may be difficult because landowners will resist disturbance to the surface by bulldozing. Doing the drilling in late summer or fall would minimize local opposition to drilling.

Report By: R.U. Bruaset  
R.U. Bruaset  
Project Geologist

Endorsed By: F.L. Wynne  
F.L. Wynne  
Senior Geologist

Endorsed For  
Release By: G. Harden  
G. Harden, Manager  
Western District, Exploration

Distribution

Minister of Mines (2)  
Cominco Ltd. (1)

RUB/sf

COMINCO LTD.

EXPLORATION  
NTS: 92I/9

WESTERN DISTRICT  
1 MAY 1980

APPENDIX A

REG ASSESSMENT REPORT

PERCUSSION DRILL LOGS

ROCK DEFINITION

For the purposes of this report, Cherry Creek and Sugarloaf units are distinguished on "monzonitic" versus "dioritic" appearance, respectively. Since neither of these rocks contain any appreciable free quartz, the classification is dependent on the percentage of K-spar or plagioclase relative to the total feldspar. Pink feldspar is assumed to be K-spar. Abundance of pink feldspar in the percussion cuttings is readily recognized. Ken Northcote's classification of Iron Mask rocks depends largely on textural criteria that are not readily recognized in percussion cuttings. Northcote (personal communication) agrees with such a classification of percussion cuttings.

PH REG 79-1

| <u>Interval</u>    | <u>Lithology</u>  | <u>Description</u>   |
|--------------------|-------------------|--|
| 0-200'<br>( 0-61m) | Cherry Creek Unit | Monzonitic (abundant K-spar)<br>0.25% pyrite. Chalcopyrite<br>abundant in upper 30 ft.<br>Mafics altered to chlorite<br>throughout hole. Chalcopyrite<br>also abundant 150-160'. |

200' END

PH REG 79-2

| <u>Interval</u>       | <u>Lithology</u> | <u>Description</u>   |
|-----------------------|------------------|--|
| 0- 20'<br>( 0-6.1m)   | Overburden       |  |
| 20-200'<br>(6.1-61 m) | Sugarloaf Unit   | Dioritic (little K-spar) gen-<br>erally only traces of chal-<br>copyrite. Pyrite, generally<br>< 0.1%, mafics altered to<br>clayey material. A one foot<br>section 160-170' contains<br>heavy cpy. |

200' END

PH REG 79-3

| <u>Interval</u>      | <u>Lithology</u>  | <u>Description</u>  |
|----------------------|-------------------|---|
| 0- 4'<br>( 0-1.2m)   | Overburden        |   |
| 4-200'<br>(1.2- 61m) | Cherry Creek Unit | Monzonitic intrusive, up to 2% pyrite in first 180' then decreases to 1/2%. Traces of cpy throughout. Mafics typically altered to chlorite. Plagioclase weakly altered. |
| 200' END             |                   |   |

PH REG 79-4

| <u>Interval</u>       | <u>Lithology</u>                     | <u>Description</u>   |
|-----------------------|--------------------------------------|--|
| 0- 5'<br>( 0-1.5m)    | Overburden                           |  |
| 5-110'<br>(1.5-33.5m) | Sugarloaf cut by dykes of Cherry Ck. | Dioritic intrusive with short K-spar rich sections. Mafics in both lithologies altered to chlorite. About 0.25% pyrite, traces of cpy. Plagioclase clayey in appearance. Caving in holes below 80' led to stuck rods at 110'. All rods recovered. Hole abandoned. This hole made considerable water. |
| 110' END              |                                      |  |

PH REG 79-5

| <u>Interval</u>      | <u>Lithology</u>                                 | <u>Description</u>  |
|----------------------|--|---|
| 0- 5'<br>( 0-1.5m)   | Overburden                                       |   |
| 5-200'<br>(1.5-61 m) | Sugarloaf Unit cut by dykes of Cherry Creek Unit | Mainly dioritic with short monzonitic (K-spar rich sections). Mafics altered to chlorite. Pyrite about 0.1%. Traces cpy. Plagioclase fresh in sections of Sugarloaf but altered to clayey material in Cherry Creek. |
| 200' END             |  |   |

PH REG 79-6

| <u>Interval</u>       | <u>Lithology</u>                                | <u>Description</u>   |
|-----------------------|---|--|
| 0- 27'<br>( 0-8.2m)   | Overburden                                      |  |
| 27-200'<br>(8.2-61 m) | Sugarloaf Unit cut by<br>dykes of Cherry Creek. | Dioritic intrusive mainly,<br>mafics typically altered<br>to chlorite. Plagioclase<br>mostly fresh to weakly al-<br>tered to 120', followed by<br>more intense alteration<br>to the end of the hole.<br>A few dykes of K-spar rich<br>intrusive noted. |

200' END

PH REG 79-7

| <u>Interval</u>      | <u>Lithology</u> | <u>Description</u>                                 |
|----------------------|------------------|--|
| 0- 80'<br>( 0-24.4m) | Overburden       | Hole lost in overburden - all equipment recovered. |

PH REG 79-8

| <u>Interval</u>          | <u>Lithology</u>  | <u>Description</u>   |
|--------------------------|-------------------|--|
| 0-27'<br>( 0- 8.2m)      | Overburden        |  |
| 27-230'<br>(8.2-70.1m)   | Sugarloaf Unit    | Dioritic intrusive. Mafics<br>altered to chlorite. Plagio-<br>clase variously weakly to<br>strongly altered. About<br>0.1 % pyrite.Trace cpy.            |
| 230-300'<br>(70.1-91.5m) | Cherry Creek Unit | Monzonitic intrusive (abun-<br>dant K-spar). Mafics<br>generally fresh to weakly<br>chloritized. About 0.1%<br>pyrite. Trace cpy. Heavy<br>cpy 130-150'. |

300' END



PH REG 79-9

| <u>Interval</u>      | <u>Lithology</u>                                  | <u>Description</u>  |
|----------------------|---|---|
| 0- 5'<br>( 0-1.5m)   | Overburden  |   |
| 5-200'<br>(1.5-61 m) | Sugarloaf Unit cut by dykes of Cherry Creek Unit. | Dioritic intrusives mainly. Mafics generally chloritic. Plagioclase weakly altered in the beginning becoming clayey near the end of the hole.<br><br>Short sections of K-spar rich intrusive are probably dykes of Cherry Creek Unit. About 0.25% pyrite. Heavy cpy 80-90'. |
| 200' END             |   |   |

PH REG 79-10

| <u>Interval</u>       | <u>Lithology</u>   | <u>Description</u>   |
|-----------------------|--|--|
| 0- 3'<br>( 0-0.9m)    | Overburden   |  |
| 3-170'<br>(0.9-51.8m) | Sugarloaf Unit   | Dioritic intrusive (little K-spar). Mafics altered to chlorite. Plagioclase range from fresh to strongly altered. About 0.25% pyrite. Trace cpy. |
|                       | Hole lost in faulted section at 170'. All equipment recovered. |  |
| 170' END              |  |  |

PH REG 79-11

| <u>Interval</u>      | <u>Lithology</u>                                  | <u>Description</u>   |
|----------------------|---|--|
| 0- 2'<br>( 0-0.6m)   | Overburden  |  |
| 2-200'<br>(0.6-61 m) | Sugarloaf cut by rare dykes of Cherry Creek Unit. | Dioritic. Mafics altered to chlorite. The degree of plagioclase alteration decreases with depth. About 0.5% pyrite. Traces of cpy. |
| 200' END             |   |  |

PH REG 79-12

| <u>Interval</u>       | <u>Lithology</u>                             | <u>Description</u>   |
|-----------------------|--|--|
| 0- 8'<br>( 0- 2.4m)   | Overburden                                   |  |
| 8-200'<br>(2.4-57.9m) | Sugarloaf Unit cut by<br>Cherry Creek dykes. | Dioritic intrusive mainly and<br>some K-spar rich sections<br>which are dykes of Cherry<br>Creek. Mafics chloritic.<br>Plagioclase weakly altered.<br>About 0.1% pyrite. |

PH REG 79-13

| <u>Interval</u>      | <u>Lithology</u>                       | <u>Description</u>   |
|----------------------|--|--|
| 0- 5'<br>( 0-1.5m)   | Overburden                             |  |
| 5-200'<br>(1.5-61 m) | Sugarloaf Unit cut by<br>Cherry Creek. | Dioritic intrusive with a few<br>short sections rich in K-spar.<br>Mafics generally altered to<br>chlorite, plagioclase,<br>strongly altered. About 0.1%<br>pyrite - rarely up to 0.5%.<br>Traces cpy. |

200' END

PH REG 79-14

| <u>Interval</u>          | <u>Lithology</u>                 | <u>Description</u>   |
|--------------------------|----------------------------------|--|
| 0- 5'<br>( 0-1.5m)       | Overburden                       |  |
| 5-150'<br>(1.5-45.7m)    | Sugarloaf cut by<br>Cherry Creek | Dioritic with short monzonitic<br>sections. Plagioclase weakly<br>altered. About 0.1% pyrite<br>rarely up to 0.25%.  |
| 150-260'<br>(45.7-79.3m) | Cherry Creek                     | Monzonitic intrusives (abun-<br>dant K-spar) mafics to chlorite.<br>Fairly heavy cpy locally such<br>as 150-160'. Pyrite usually<br>0.1% or less. The degree of<br>plagioclase alteration appears<br>to decrease with depth. |

260' END

## 1979 PERCUSSION DRILLING

| SAMPLE NUMBER | FIELD NUMBER                          | Cu ppm         | Cu (%) |
|---------------|---------------------------------------|----------------|--------|
| REG PH-79-1   | R79 11549 19701I(0-20')               | 6050           | 0.65   |
|               | R79 11550 19702I(20-30')              | 2060           | 0.23   |
|               | R79 11551 19703I(30-40')              | 1020           | 0.10   |
|               | R79 11552 19704I(40-50')              | 1600           | 0.16   |
|               | <del>R79 11553 197045I(50-60')</del>  | <del>670</del> |        |
|               | R79 11554 19706I(60-70')              | 600            |        |
|               | R79 11555 19707I(70-80')              | 580            |        |
|               | R79 11556 19708I(80-90')              | 917            |        |
|               | R79 11557 19709I(90-100')             | 715            |        |
|               | R79 11558 19710I(100-110')            | 560            |        |
|               | <del>R79 11559 19711I(110-120')</del> | <del>370</del> |        |
|               | R79 11560 19712I(120-130')            | 400            |        |
|               | R79 11561 19713I(130-140')            | 605            |        |
|               | R79 11562 19714I(140-150')            | 625            |        |
|               | R79 11563 19715I(150-160')            | 860            |        |
|               | R79 11564 19716I(160-170')            | 870            |        |
|               | <del>R79 11565 19717I(170-180')</del> | <del>372</del> |        |
|               | R79 11566 19718I(180-190')            | 220            |        |
|               | R79 11567 19719I(190-200')            | 237            |        |
| REG PH 79-2   | R79 11568 19720I(20-30')              | 305            |        |
|               | R79 11569 19721I(30-40')              | 53             |        |
|               | R79 11570 19722I(40-50')              | 32             |        |
|               | <del>R79 11571 19723I(50-60')</del>   | <del>38</del>  |        |
|               | R79 11572 19724I(60-70')              | 80             |        |
|               | R79 11573 19725I(70-80')              | 91             |        |
|               | R79 11574 19726I(80-90')              | 80             |        |
|               | R79 11575 19727I(90-100')             | 54             |        |
|               | R79 11576 19728I(100-110')            | 46             |        |
|               | <del>R79 11577 19729I(110-120')</del> | <del>89</del>  |        |
|               | R79 11578 19730I(120-130')            | 61             |        |
|               | R79 11579 19731I(130-140')            | 71             |        |
|               | R79 11580 19732I(140-150')            | 82             |        |
|               | R79 11581 19733I(150-160')            | 305            |        |
|               | R79 11582 19734I(160-170')            | 448            |        |
|               | <del>R79 11583 19735I(170-180')</del> | <del>283</del> |        |
|               | R79 11584 19736I(180-190')            | 520            |        |
|               | R79 11585 19737I(190-200')            | 248            |        |
| REG PH 79-3   | R79 11586 19738I(4-30')               | 2360           | 0.25   |
|               | R79 11587 19739I(30-40')              | 3760           | 0.40   |

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|        | SAMPLE NUMBER | FIELD NUMBER   | Cu ppm | Cu (%) |
|--------|---------------|----------------|--------|--------|
| 79-3   | R79 11588     | 19740I40-50'   | 680    |        |
| CONT'D | R79 11589     | 19741I50-60'   | 330    |        |
|        | R79 11590     | 19742I60-70'   | 421    |        |
|        | R79 11591     | 19743I70-80'   | 342    |        |
|        | R79 11592     | 19744I80-90'   | 324    |        |
|        | R79 11593     | 19745I90-100'  | 290    |        |
|        | R79 11594     | 19746I100-110' | 287    |        |
|        | R79 11595     | 19747I110-120' | 196    |        |
|        | R79 11596     | 19748I120-130' | 320    |        |
|        | R79 11597     | 19749I130-140' | 208    |        |
|        | R79 11598     | 19750I140-150' | 206    |        |
|        | R79 11599     | 19751I150-160' | 135    |        |
|        | R79 11600     | 19752I160-170' | 128    |        |
|        | R79 11601     | 19753I170-180' | 114    |        |
|        | R79 11602     | 19754I180-190' | 294    |        |
|        | R79 11603     | 19755I190-200' | 340    |        |
| REG PH | R79 11604     | 19756I5-20'    | 225    |        |
| 79-4   | R79 11605     | 19757I20-30'   | 188    |        |
|        | R79 11606     | 19758I30-40'   | 134    |        |
|        | R79 11607     | 19759I40-50'   | 122    |        |
|        | R79 11608     | 19760I50-60'   | 135    |        |
|        | R79 11609     | 19761I60-70'   | 140    |        |
|        | R79 11610     | 19762I70-80'   | 150    |        |
|        | R79 11611     | 19763I80-90'   | 217    |        |
|        | R79 11612     | 19764I90-100'  | 182    |        |
|        | R79 11613     | 19765I100-110' | 234    |        |
| REG PH | R79 11614     | 19766I5-20'    | 136    |        |
| 79-5   | R79 11615     | 19767I20-30'   | 94     |        |
|        | R79 11616     | 19768I30-40'   | 93     |        |
|        | R79 11617     | 19769I40-50'   | 61     |        |
|        | R79 11618     | 19770I50-60'   | 103    |        |
|        | R79 11619     | 19771I60-70'   | 104    |        |
|        | R79 11620     | 19772I70-80'   | 100    |        |
|        | R79 11621     | 19773I80-90'   | 53     |        |
|        | R79 11622     | 19774I90-100'  | 120    |        |
|        | R79 11623     | 19775I100-110' | 740    |        |
|        | R79 11624     | 19776I110-120' | 250    |        |
|        | R79 11625     | 19777I120-130' | 141    |        |
|        | R79 11626     | 19778I130-140' | 89     |        |

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| SAMPLE NUMBER         | FIELD NUMBER   | Cu ppm | Cu (%) |
|-----------------------|----------------|--------|--------|
| REG PHR79 11627       | 19779I140-150' | 128    |        |
| 79-5 R79 11628        | 19780I150-160' | 112    |        |
| CONT'DR79 11629       | 19781I160-170' | 84     |        |
| R79 11630             | 19782I170-180' | 80     |        |
| R79 11631             | 19783I180-190' | 97     |        |
| R79 11632             | 19784I190-200' | 184    |        |
| REG PH 79-6 R79 11633 | 19785I27-40'   | 236    |        |
| R79 11634             | 19786I40-50'   | 388    |        |
| R79 11635             | 19787I50-60'   | 714    |        |
| R79 11636             | 19788I60-70'   | 660    |        |
| R79 11637             | 19789I70-80'   | 245    |        |
| R79 11638             | 19790I80-90'   | 131    |        |
| R79 11639             | 19791I90-100'  | 145    |        |
| R79 11640             | 19792I100-110' | 130    |        |
| R79 11641             | 1973I110-120'  | 104    |        |
| R79 11642             | 19794I120-130' | 150    |        |
| R79 11643             | 19795I130-140' | 175    |        |
| R79 11644             | 19796I140-150' | 116    |        |
| R79 11645             | 19797I150-160' | 165    |        |
| R79 11646             | 19798I160-170' | 220    |        |
| R79 11647             | 19798I170-180' | 323    |        |
| R79 11648             | 19800I180-190' | 207    |        |
| R79 11649             | 19801I190-200' | 156    |        |
| REG PH 79-8 R79 11650 | 19802I27-40'   | 167    |        |
| R79 11651             | 19803I40-50'   | 178    |        |
| R79 11652             | 19804I50-60'   | 154    |        |
| R79 11653             | 19805I60-70'   | 163    |        |
| R79 11654             | 19806I70-80'   | 191    |        |
| R79 11655             | 19807I80-90'   | 180    |        |
| R79 11656             | 19808I90-100'  | 195    |        |
| R79 11657             | 19809I100-110' | 186    |        |
| R79 11658             | 19810I110-120' | 288    |        |
| R79 11659             | 19811I120-130' | 1190   | 0.12   |
| R79 11660             | 19812I130-140' | 6550   | 0.71   |
| R79 11661             | 19813I140-150' | 3960   | 0.40   |
| R79 11662             | 19814I150-160' | 425    |        |
| R79 11663             | 19815I160-170' | 454    |        |
| R79 11664             | 19816I170-180' | 228    |        |
| R79 11665             | 19817I180-190' | 384    |        |

(Note: No samples from REG

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|         | SAMPLE<br>NUMBER | FIELD NUMBER    | Cu<br>ppm | Co (1)<br>% |
|---------|------------------|-----------------|-----------|-------------|
| REG PH  | R79 11666        | 19818I190-200'  | 436       |             |
| 79-8    | R79 11667        | 19819I200-210'  | 197       |             |
| CONT'D. | R79 11668        | 19820I210-220'  | 248       |             |
|         | R79 11669        | 19821I220-230'  | 192       |             |
|         | R79 11670        | 19822I230-240'  | 204       |             |
|         | R79 11671        | 19823I240-250'  | 208       |             |
|         | R79 11672        | 19824I250-260'  | 259       |             |
|         | R79 11673        | 19825I260-270'  | 436       |             |
|         | R79 11674        | 19826I270-280'  | 173       |             |
|         | R79 11675        | 19827I280-300'  | 200       |             |
| REG PH  | R79 11676        | 19828I5-20'     | 214       |             |
| 79-9    | R79 11677        | 19829I20-30'    | 344       |             |
|         | R79 11678        | 19830I30-40'    | 225       |             |
|         | R79 11679        | 19831I40-50'    | 170       |             |
|         | R79 11680        | 19832I50-60'    | 185       |             |
|         | R79 11681        | 19833I60-70'    | 161       |             |
|         | R79 11682        | 19834I70-80'    | 218       |             |
|         | R79 11683        | 19835I80-90'    | 2840      | 0.27        |
|         | R79 11684        | 198736I90-11'   | 1760      | 0.17        |
|         | R79 11685        | 19837I100-110'  | 1060      | 0.12        |
|         | R79 11686        | 19838I110-120'  | 1000      | 0.09        |
|         | R79 11687        | 198739I120-130' | 1480      | 0.15        |
|         | R79 11688        | 19840I130-140'  | 528       |             |
|         | R79 11689        | 19841I140-150'  | 300       |             |
|         | R79 11690        | 19842I150-160'  | 295       |             |
|         | R79 11691        | 19843I160-170'  | 234       |             |
|         | R79 11692        | 19844I170-180'  | 154       |             |
|         | R79 11693        | 198745I180-190' | 150       |             |
|         | R79 11694        | 19846I190-200'  | 234       |             |
| REG PH  | R79 11695        | 19847I3-20'     | 103       |             |
| 79-10   | R79 11696        | 19848I20-30'    | 163       |             |
|         | R79 11697        | 19849I30-40'    | 172       |             |
|         | R79 11698        | 19850I40-50'    | 210       |             |
|         | R79 11699        | 19852I50-60'    | 191       |             |
|         | R79 11700        | 19853I60-70'    | 196       |             |
|         | R79 11701        | 19854I70-80'    | 116       |             |
|         | R79 11702        | 19855I80-90'    | 135       |             |
|         | R79 11703        | 19856I90-100'   | 304       |             |
|         | R79 11704        | 19857I100-110'  | 270       |             |

|        | SAMPLE NUMBER | FIELD NUMBER   | Cu ppm | Cu (1) % |
|--------|---------------|----------------|--------|----------|
| REG PH | R79 11705     | 19858I110-120' | 755    |          |
| 79-10  | R79 11706     | 19859I120-130' | 820    |          |
| CONT'D | R79 11707     | 19860I130-140' | 3030   | 0.31     |
|        | R79 11708     | 19861I140-150' | 587    |          |
|        | R79 11709     | 19862I150-160' | 315    |          |
|        | R79 11710     | 19863I160-170' | 368    |          |
| REG PH | R79 11711     | 19864I2-10'    | 330    |          |
| 79-11  | R79 11712     | 19865I10-20'   | 130    |          |
|        | R79 11713     | 19866I20-30'   | 155    |          |
|        | R79 11714     | 19867I30-40'   | 170    |          |
|        | R79 11715     | 19869I40-50'   | 256    |          |
|        | R79 11716     | 19869I50-60'   | 209    |          |
|        | R79 11717     | 19870I60-70'   | 224    |          |
|        | R79 11718     | 19871I70-80'   | 236    |          |
|        | R79 11719     | 19872I80-90'   | 226    |          |
|        | R79 11720     | 19873I90-100'  | 335    |          |
|        | R79 11721     | 19874I100-110' | 390    |          |
|        | R79 11722     | 19875I110-120' | 350    |          |
|        | R79 11723     | 19876I120-130' | 277    |          |
|        | R79 11724     | 19877I130-140' | 228    |          |
|        | R79 11725     | 19878I140-150' | 351    |          |
|        | R79 11726     | 19879I150-160' | 239    |          |
|        | R79 11727     | 19880I160-170' | 200    |          |
|        | R79 11728     | 19881I170-180' | 224    |          |
|        | R79 11729     | 19882I180-190' | 200    |          |
|        | R79 11730     | 19883I190-200' | 120    |          |
| REG PH | R79 11731     | 19884I8-20'    | 193    |          |
| 79-12  | R79 11732     | 19885I20-30'   | 266    |          |
|        | R79 11733     | 19886I30-40'   | 328    |          |
|        | R79 11734     | 19887I40-50'   | 365    |          |
|        | R79 11735     | 19888I50-60'   | 180    |          |
|        | R79 11736     | 19889I60-70'   | 205    |          |
|        | R79 11737     | 19890I70-80'   | 400    |          |
|        | R79 11738     | 19891I80-90'   | 263    |          |
|        | R79 11739     | 19892I90-100'  | 270    |          |
|        | R79 11740     | 19893I100-110' | 263    |          |
|        | R79 11741     | 19894I110-120' | 308    |          |
|        | R79 11742     | 19895I120-130' | 300    |          |
|        | R79 11743     | 19896I130-140' | 273    |          |

REPORTING DATE 17 SEP 1979

|        | SAMPLE<br>NUMBER | FIELD NUMBER   | Cu<br>PPM | Cu (1)<br>% |
|--------|------------------|----------------|-----------|-------------|
| REG PH | R79 11744        | 19897I140-150' | 259       |             |
| 79-12  | R79 11745        | 19898I150-160' | 238       |             |
| CONT'D | R79 11746        | 19899I160-170' | 300       |             |
|        | R79 11747        | 19900I170-180' | 320       |             |
|        | R79 11748        | 19901I180-190' | 268       |             |
|        | R79 11749        | 19902I190-200' | 266       |             |
| REG PH | R79 11750        | 19903I5-20'    | 75        |             |
| 79-13  | R79 11751        | 19904I20-30'   | 52        |             |
|        | R79 11752        | 19905I30-40'   | 76        |             |
|        | R79 11753        | 19906I40-50'   | 81        |             |
|        | R79 11754        | 19907I50-60'   | 66        |             |
|        | R79 11755        | 19908I60-70'   | 63        |             |
|        | R79 11756        | 19909I70-80'   | 66        |             |
|        | R79 11757        | 19910I80-90'   | 91        |             |
|        | R79 11758        | 19911I90-100'  | 78        |             |
|        | R79 11759        | 19912I100-110' | 57        |             |
|        | R79 11760        | 19913I110-120' | 72        |             |
|        | R79 11761        | 19914I120-130' | 76        |             |
|        | R79 11762        | 19915I130-140' | 78        |             |
|        | R79 11763        | 19916I140-150' | 66        |             |
|        | R79 11764        | 19917I150-160' | 96        |             |
|        | R79 11765        | 19918I160-170' | 212       |             |
|        | R79 11766        | 19919I170-180' | 153       |             |
|        | R79 11767        | 19920I180-190' | 122       |             |
|        | R79 11768        | 19921I190-200' | 124       |             |
| REG PH | R79 11769        | 19922I5-20'    | 194       |             |
| 79-14  | R79 11770        | 19923I20-30'   | 470       |             |
|        | R79 11771        | 19924I30-40'   | 182       |             |
|        | R79 11772        | 19925I40-50'   | 780       |             |
|        | R79 11773        | 19926I50-60'   | 145       |             |
|        | R79 11774        | 19927I60-70'   | 184       |             |
|        | R79 11775        | 19928I70-80'   | 132       |             |
|        | R79 11776        | 19929I80-90'   | 166       |             |
|        | R79 11777        | 19930I90-100'  | 143       |             |
|        | R79 11778        | 19931I100-110' | 128       |             |
|        | R79 11779        | 19932I110-120' | 85        |             |
|        | R79 11780        | 19933I120-130' | 95        |             |
|        | R79 11781        | 19934I130-140' | 92        |             |
|        | R79 11782        | 19935I140-150' | 83        |             |



REPORTING DATE 17 SEP 1979

| SAMPLE NUMBER    | FIFID NUMBER    | Cu ppm | Cu(1) % |
|------------------|-----------------|--------|---------|
| REG PHR79 11783  | 199936I150-160' | 1370   | 0.13    |
| 79-14 R79 11784  | 19937I160-170'  | 790    |         |
| CONT'D R79 11785 | 19938I170-180'  | 172    |         |
| R79 11786        | 19939I180-190'  | 192    |         |
| R79 11787        | 19940I190-200'  | 185    |         |
| R79 11788        | 19941I200-210'  | 154    |         |
| R79 11789        | 19942I210-220'  | 177    |         |
| R79 11790        | 19943I220-230'  | 268    |         |
| R79 11791        | 1994I230-240'   | 263    |         |
| R79 11792        | 19945I240-250'  | 160    |         |
| R79 11793        | 19946I250-260'  | 230    |         |

Where analysis requested but no values shown, results are to follow

ANALYTICAL METHODS

Cu

Aqua regia/AA

Cu(1)

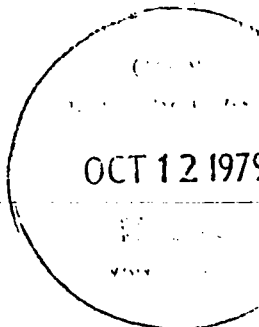
Assay

## REG

JOB V79

REPORTING DATE 12 OCT 1979

| SAMPLE NUMBER | FIELD NUMBER | Footage      | Au ppm | Au ppb |
|---------------|--------------|--------------|--------|--------|
| R79 12047     | REG79 1      | COMFO 0-200  | <.4    | 60     |
| R79 12048     | REG79 2      | COMFO 20-200 | <.4    | 80     |
| R79 12049     | REG79 3      | COMFO 4-200  | <.4    | 40     |
| R79 12050     | REG79 4      | COMFO 5-110  | <.4    | 10     |
| R79 12051     | REG79 5      | COMFO 5-200  | <.4    | <10    |
| R79 12052     | REG79 6      | COMFO 27-200 | <.4    | <10    |
| R79 12053     | REG79 8      | COMFO 27-300 | <.4    | 20     |
| R79 12054     | REG79 9      | COMFO 5-200  | <.4    | <10    |
| R79 12055     | REG79 10     | COMFO 3-170  | <.4    | 20     |
| R79 12056     | REG79 11     | COMFO 2-200  | <.4    | <10    |
| R79 12057     | REG79 12     | COMFO 8-200  | <.4    | <10    |
| R79 12058     | REG79 13     | COMFO 5-200  | <.4    | <10    |
| R79 12059     | REG79 14     | COMFO 5-260  | <.4    | <10    |



OCT 12 1979

Where analysis requested but no values shown, results are to follow

## ANALYTICAL METHODS

Au

Aqua regia/solvent extr/AA

Ag

Aqua regia/AA

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. on the Reg Byr Property for the period January 1, 1979 to December 31, 1979.
3. The statement of expenditures referred to in paragraph 2 is true and accurate to the best of my knowledge, information and belief.

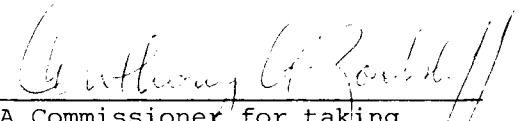
AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the City )  
of Vancouver in the Province )  
of British Columbia, this *2nd* )  
day of *May* 19*80* )

*Anthony G. Zoch* )  
A Commissioner for taking )  
Affidavits for British Columbia )

  
\_\_\_\_\_  
Robin Lawson Woods

This is Schedule A referred to  
in the Statutory Declaration  
of ROBIN LAWSON WOODS  
Declared before me this 2nd day  
of May, 1980

  
A Commissioner for taking  
Affidavits for British Columbia

STATEMENT OF EXPENDITURES

REG BYR PROPERTY

KAMLOOPS, M.D., B.C.

JANUARY 1 TO DECEMBER 31, 1979

|                         |                 |
|-------------------------|-----------------|
| Geology                 | \$12,240        |
| Geochemistry            | 1,193           |
| Percussion drilling     | 12,248          |
| Transportation          | 543             |
| Camp costs              | 280             |
| Communications          | 754             |
| Administrative services | 2,429           |
|                         | <u>\$29,687</u> |

R. Craig  
Vancouver Office  
April 28, 1980

  
Supervisor, Exploration  
& Foreign Accounting

APPENDIX "C"

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF EXPENDITURE

(Work performed during the period August 3 to August 27, 1979)

Al Miller Percussion Drilling Ltd.  
2720 feet(829 m) @ 4.00 foot (\$13.12/m) \$ 10,880.00

MISCELLANEOUS

Assaying sample bags, sampling, equipment and  
water hauling 2,566.99

SALARIES

R.U. Bruaset 15 days @ \$156.42/day 2,346.30  
T. Ready 7 days @ 55.44/day 388.08

TRANSPORTATION

542.82

DOMICILE

951.67

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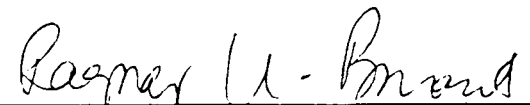
17,675.86

Cost/foot \$6.50  
Cost/meter 21.32

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

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 "Appendix C" to this my report is a true copy of expenditures incurred on percussion drilling on the REG Property;
3. THAT the said expenditures were incurred between the 3rd day of August - 27th of August, 1979 for the purposes of mineral exploration on the above noted property.

  
RAGNAR U. BRUASET

APPENDIX "D"

COMINCO LTD.

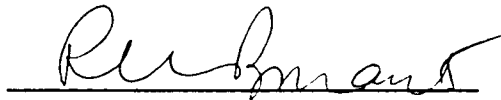
STATEMENT OF QUALIFICATIONS

I, RAGNAR U. BRUASET, with business address at 700-409 Granville St., Vancouver, British Columbia, V6C 1T2, do hereby certify that I have supervised the percussion drilling programme on the REG property.

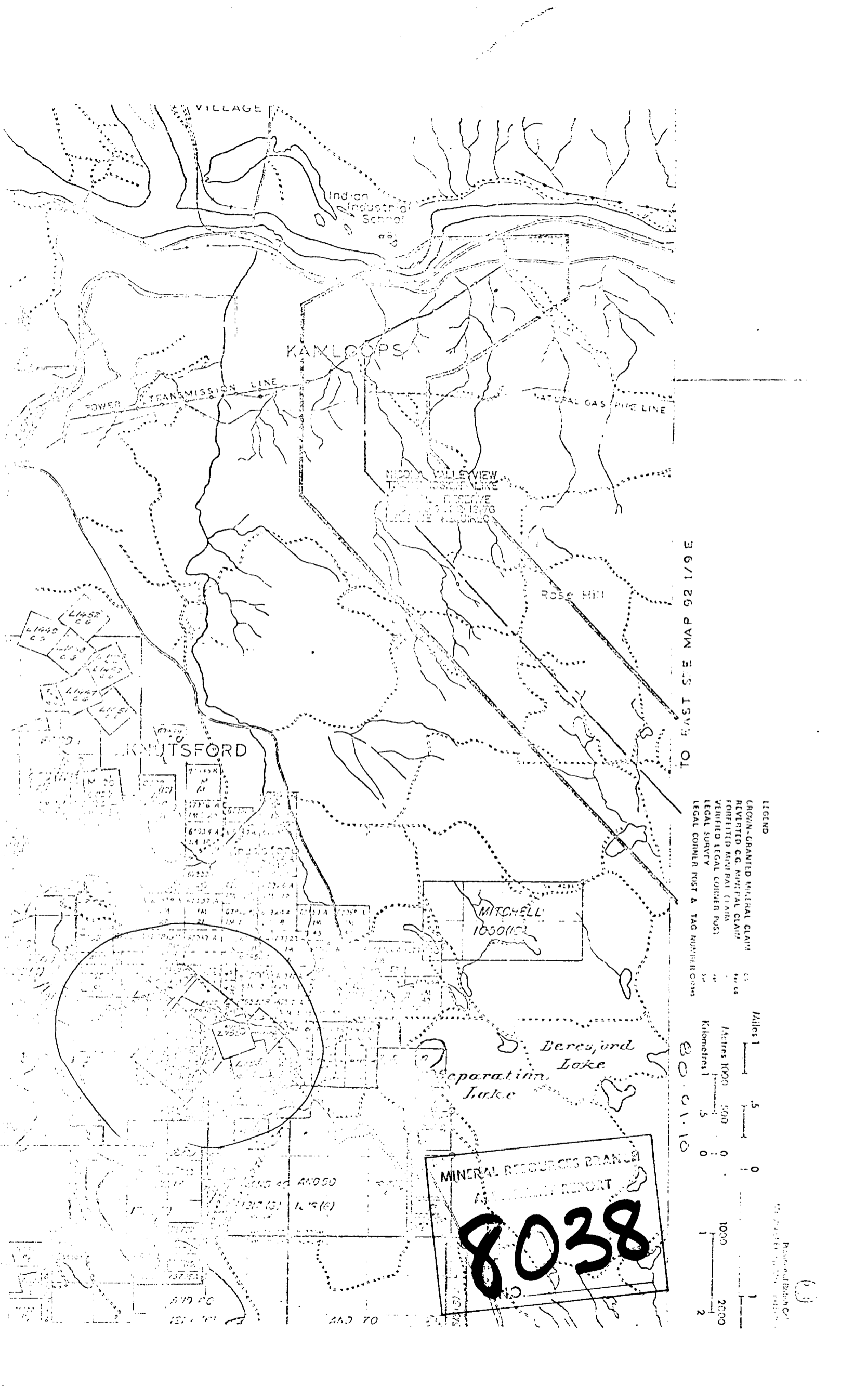
I also certify that:

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 REG property during the period August 1, 1977 to the present.

Respectfully Submitted:



R.U. Bruaset  
Project Geologist



TO EAST SEE MAP 92 119 E

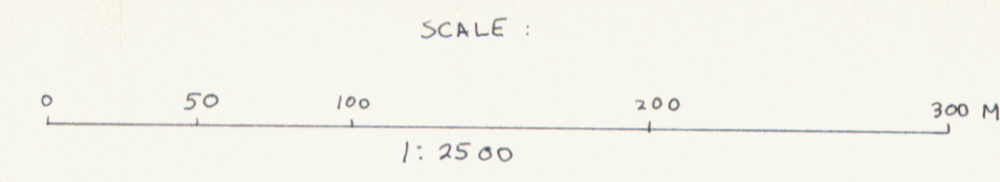
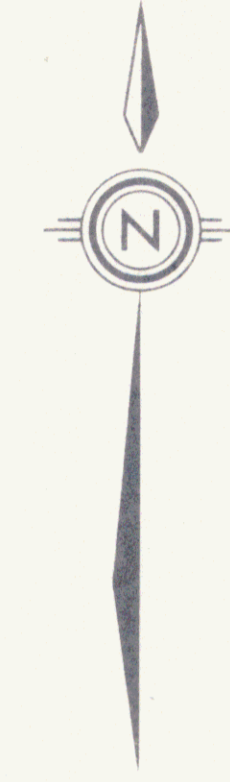
LEGEND

- GRANT-GRANTED MINERAL CLAIM
- REVERTED CG MINERAL CLAIM
- FORFEITED MINERAL CLAIM
- VERIFIED LEGAL CORNER POST
- LEGAL SURVEY
- LEGAL CORNER POST A TAG NUMBER 0385

Miles 1 5 10  
 Kilometers 1 5 10  
 METERS 1000 500 0 1000 2000

MINERAL RESOURCES BRANCH  
 ANALYTICAL REPORT  
**8038**





- TERTIARY**
- KANLOOS GROUP VOLCANICS, SEDIMENTS
  
- UPPER TRIASSIC IRON MASK BATHOLITH**
- CHERRY CREEK UNIT
- SUGARLOAF UNIT
- HYBRID PHASE  
After B.C.M.M.  
Prelim. Map No.26 March 1977
  
- DRILLING**
- GREAT PLAINS**
- Diamond percussion drill hole, vertical, inclined
- Best Cu. intersection and thickness, length of hole
- COMINCO**
- Percussion hole, vertical
- Best Cu. intersection and thickness, length of hole
- 420ppm = just pass geochemical threshold
- 0.37% = assay
- 70 = 4±5 Principal lithology
- IP ANOMALIES**
- GREAT PLAINS (1970 survey)
- 2nd separation frequency offset
- COMINCO (1978 survey)**
- 2nd separation changeability (open)
- 3rd separation changeability (open)
- MISCELLANEOUS**
- fence lines
- Adit
- Main road
- Secondary roads and trails
- Point, showing
- Possible stone monument pertaining to Lot 1560
- Legal survey marker
- Picture points on base map pencil manuscript
- Miscellaneous claim posts

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8038**  
NO. 100

**REG PROPERTY**

|                                 |                  |
|---------------------------------|------------------|
| Drawn by: RUB                   | Traced by:       |
| Checked by: Date                | Checked by: Date |
| COMPILATION<br>LOT 1560-62 AREA |                  |
| Scale: 1:2500                   | Date: AUG. 1979  |
| Plate:                          |                  |

*Note: the locations of monuments defining Lots 1560, 61, 62 are unknown*