| DRILL HO   | LE RECORD   |  |   |  | (   | COMINCO LTD.  |   |                           | 2002                |              | ₹ 4 °L | tr.   |                            |             |
|--|---|--|---|--|---|---|---|---------------------------|---------------------|--------------|--------|-------|----------------------------|-------------|
| Property:<br>Commenced:<br>Completed:<br>Co-ordinates:<br>Objective: | KITSAULT<br>August 24, 1988<br>August 26, 1988<br>O+18W 7+50N<br>to test down dip of the<br>west end of the west<br>end showing   | District:<br>Location:<br>Core Size:<br>Claim:<br>Collar Dip:<br>Length:                             | Western District<br>BQ thin wall<br>Sault 4<br>-70°<br>152.4 m  | Hole No.<br>Tests at:<br>Corr. Dip:<br>True Brg:<br>% Recov:                               | K88-7<br>76.0, 152.4<br>-70°<br>160°<br>90-95%  | 4 m   | Hor. Comp<br>Vert. Com<br>Logged by<br>Date:  | :<br>p:<br>: P.A.<br>Augu | . MacRol<br>Ist 30, | bbie<br>1988 |        | RCHAU | Я <sub>Л-</sub> К88<br>Рас | 8-7<br>ge 1 |
| FOOTAGE  | -   |  |   |  |   |   | •• <b>••</b> •••••••••••••••••••••••••••••••• |                           |                     | İ            | AN     | ALYSI | S (pp                      | om)         |
| FROM TO  | DESCRIPTION   | · · · · · · · · · · · · · · · · · · ·  |   |  |   |   | SAMPLE  | FROM                      | TO                  | Ag           | Pb     | Zn    | Cu                         |             |
| 0 - 1.5  | Casing.   |  |   |  |   |   |   |                           |                     |              |        |       |                            |             |
| 1.5 - 27.7   | BASALTIC LAPILLI-ASH TUF<br>Heterolithic, poorly sor<br>fragments up to 3.5 cm.<br>phyric flow as well as m<br>medium-grained matrix is<br>calcite altered. No int<br>0-2% is present. Occasi<br>bleached halos occur.  | F<br>ted and matri<br>Fragments in<br>edium-dark ma<br>weakly-moder<br>ørnal stratif<br>onal 1-10 mm | ix supported tuff co<br>iclude medium-dark g<br>iroon, hematite alte<br>ately magnetic and i<br>ication was noted.<br>wide, calcite, quar | ntaining 40-<br>reen, aphyri<br>red flow. T<br>moderately-s<br>Fine-graine<br>tz, chlorite | 60%, subang<br>c and pyrox<br>he fine to<br>trongly hem<br>d, dissemina<br>vein/brecc | ular-rounded<br>ene/feldspar<br>atite and<br>ated pyrite,<br>ia vein with |   |                           |                     |              |        |       |                            |             |
| 27.7 - 28.0  | Broken core and quartz,   | calcite veins  | - FAULT.  |  |   |   |   |                           |                     |              |        |       |                            |             |
| 28.0 - 30.0  | BASALTIC LAPILLI-ASH/ASH TUFF<br>Consists of normally graded lapilli-ash $>$ ash tuff cycles between 10-60 cm thick. These<br>dark green tuffs have a weakly-moderately calcareous matrix and contain 5-30% lapilli from<br>2-85 mm. Tops of cycles often consist of well laminated ash and cherty ash <1-8 mm thick.<br>29.0 m - laminations at 63° to core axis.<br>29.2-29.4 m - laminations at 68° and 70° to core axis.<br>29.9 m - laminations at 74° to core axis. |  |   |  |   |   |   |                           |                     |              |        |       |                            |             |
| 30.0 - 32.0  | BASALTIC ASH TUFF (MINOR<br>Dark green, moderate-str<br>30.4-30.6 - lapilli tuff  | LAPILLI TUFF<br>ong carbonate<br>•   | )<br>e alteration; no int   | ernal strati   | fication.   |   |   |                           |                     |              |        |       |                            |             |
| 32.0 - 36.9  | BASALTIC LAPILLI-ASH TUF<br>As above.   | F  |   |  |   |   |   |                           |                     |              |        |       |                            |             |
| 36.9 - 40.1  | BASALTIC ASH TUFF<br>Upper contact at 60° to  | core axis. l   | Unit is massive and   | non-descript   | . Grades i  | nto the   |   |                           |                     |              |        |       |                            |             |

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| FOOTAGE     |  |        |          |          |          |            |       |             |   |
|-------------|--|--------|----------|----------|----------|------------|-------|-------------|---|
| FROM TO     | DESCRIPTION  |        |          |          | L        | <u>ANA</u> | LYSIS | <u>(ppn</u> | <u>ı)                                    </u> |
| 36.9 - 40.1 | underlying unit.   | SAMPLE | FROM     | T0       | Ag       | Pb         | Zn    | Cu          |   |
| continued   |  |        |          |          |          |            |       |             |   |
|             |  |        |          | 1        |          |            |       |             |   |
| 40.1 - 43.5 | BASALTIC LAPILLI-ASH TUFF  |        |          |          |          |            |       |             |   |
|             | Dark green. Weakly calcareous matrix with 15-40%, poorly sorted fragments up to 21 cm.   |        | <u> </u> | 1        |          |            |       |             |   |
|             | Mafic fragments are fine to medium-orained, amvodaloidal (calcite + chlorite infilled) and   |        | <u> </u> | <u> </u> |          |            |       |             |   |
|             | $harre rragineres are rrie to meaning famous any galaretear (caretee \underline{-} enterice minimum and \underline{-} over the rice in the second se$ |        |          |          |          |            |       |             |   |
|             | A0.9 m internal discontinuous laminations 1.3 mm at 73° to core avis   |        | <u> </u> |          | +        |            |       |             |   |
|             | 40.0 m - muernar uisconcinuous faminacions, 1-5 mm ac 75 co core axis.   |        | <u> </u> | <u> </u> |          |            |       |             |   |
|             | 38.5 m, 41.3-41.4 m - quartz, chiorite, carcite veni at 30° to core axis.  |        |          |          |          |            |       |             |   |
|             |  |        |          |          | 1        |            |       |             |   |
| 43.5 - 63.2 | BASALTIC LAPILLI-ASH/ASH TUFF  |        |          |          |          |            |       |             |   |
|             | As above. Contains 10-30% subangular-irregular fragments 2 mm - 11.5 cm and abundant   |        |          |          |          |            |       |             |   |
|             | calcite veins with 1-2%, associated, fine-grained pyrite and locally bleached halos.   |        |          |          |          |            |       |             |   |
|             | 50.8 m - pyritic veinlets, <u>&lt;</u> 2mm.  |        |          |          |          |            |       |             |   |
|             | 51.1 m - quartz, calcite, strontianite, pyrite veinlets with bleached halos containing   |        |          |          |          |            |       |             |   |
|             | patchy pyrite alteration. Vein appears vuggy due to calcite dissolution.   |        |          |          |          |            |       |             |   |
|             | 52.1-55.0 m - pyrite veinlets.   |        | 1        |          |          |            |       |             |   |
|             | 57.9-60.5 m - bleached rock with andesite appearance (light-medium green) with abundant  |        | 1        | 1        | 1        |            |       |             |   |
|             | pyrite veinlets and vuogy quartz, epidote, chlorite veins at 33° to core axis.   |        | 1        | 1        |          |            |       |             |   |
|             | 67.1-67.2. 61.4. 61.7. 62.3 m - calcite. quartz. pyrite. chlorite veins.   |        | +        | +        | <u> </u> |            |       |             |   |
|             |  |        | +        |          |          |            |       |             |   |
| 63 2 - 63 9 | RASALTIC ASH THEF  |        | 1        | +        | +        |            |       |             |   |
|             | Unper contact at 45° to core axis Massive medium_dark green with a slight margon cast  |        | <u> </u> | +        | +        |            |       |             |   |
|             | containing occasional lanili up to 7 mm. Grades into underlying unit   |        | ┥─────   | +        | +        |            |       |             |   |
|             |  |        |          |          |          |            |       |             |   |
| 62 0 72 5   |  |        |          |          |          |            |       |             |   |
| 03.9 - 72.5 | BASALIIG LAPILLI-ASH IUFF  |        |          | ļ        |          |            |       |             |   |
|             | Massive lapilitash turr, maroon in colour containing lapilit up to 54 cm locally.  |        | <u> </u> |          |          |            |       |             |   |
|             | 65.8 m - 4.5 cm ash interbed at /5° to core axis.  |        | <u> </u> |          |          |            |       |             |   |
|             |  |        |          |          |          |            |       |             |   |
| 72.5 - 73.6 | Sheared rock – FAULT – 30° to core axis.   |        |          |          |          |            |       |             |   |
|             |  |        |          |          |          |            |       |             |   |
|             |  |        |          |          |          |            |       |             |   |
|             |  |        |          |          |          |            |       |             |   |

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| FOOTAGE                  |   |        |          |          | I        | A N1/ |         | : /      | -)       |
|--------------------------|---|--------|----------|----------|----------|-------|---------|----------|----------|
| 72 C 74 E                |   |        | TROM     | 170      |          |       |         |          | <u>µ</u> |
| /3.0 - /4.3              | ANDESITIC ASH TUFF  | SAMPLE | FRUM     | 110      | Ag       | PD    | <u></u> |          |          |
|                          | Meanum grey green with a singht bluish cast; weakly calcaleous with tragments generally s   |        | <b> </b> |          | <u> </u> |       |         | ·        | <u> </u> |
|                          | Zmm but up to 5 mm. Impression is one of an altered coarse ash turr - possibly crystal      |        | <u> </u> |          | <b></b>  |       |         | I        |          |
|                          | ricn.   |        | <b> </b> | <u> </u> |          |       |         |          | <u> </u> |
| 74 6 76 0                |   |        |          |          | ļ        |       |         | l        | ļ        |
| /4.5 - /5.2              | INTERBEUDED-INTERLAMINATED, FINE TO CUARSE-GRAINED ANDESTITE ASH TUFF                       |        | <u> </u> | <u> </u> | +        |       |         | ]        | <u> </u> |
|                          | Consists of 1-13 mm faminated, very fine-grained asn, fine-grained asn and chert, dark      |        |          |          |          |       |         |          | <b></b>  |
|                          | green to grey and interbedded / mm - 10.4 cm, thick, medium green, fine-coarse ash beds.    |        | <u> </u> | ·        | <b>_</b> |       |         | l        | <u> </u> |
|                          | ine tine-coarse as beds are crystal rich and weakly calcareous. Very tine-grained ash and   |        |          | +        | <b>_</b> |       |         | l        |          |
|                          | chert faminations show flame and pillow structures indicating top is uphole.                |        | ļ        | <u> </u> | ·}       |       |         | l        | <b></b>  |
|                          | bedding: 82°, 80°, 75°, 70°, 77°, 78°, 72° to core axis.                                    |        |          |          |          |       |         | l        | <b></b>  |
|                          |   |        | <u> </u> | ∔        | <u></u>  |       |         | l        | ļ        |
| /5.2 - /5.5              | ANDESITIC ASH TUFF WITH BLACK MUDSTONE (?) FRAGMENTS  |        |          |          | <u></u>  |       |         | l        |          |
| Contains 10-15% black, a | Contains 10-15% black, angular-flattened fragments <2-18 mm of mudstone or very             |        |          | ·        | 1        |       |         | <u> </u> |          |
|                          | fine-grained black sulphide (possibly graphite?).   |        |          |          | <u> </u> |       |         |          |          |
|                          |   |        | <b></b>  |          | 1        |       |         |          |          |
| 75.5 - 77.7              | ANDESITIC LAPILLI-ASH TUFF  |        |          |          | I        |       |         |          |          |
|                          | Contains 25-30% andesitic flow fragments, 2 mm - 20 cm.                                     |        | <u> </u> |          | <u> </u> |       |         |          |          |
| _                        |   |        |          |          |          |       |         |          |          |
| 77.7 - 78.1              | ANDESITIC COARSE ASH TUFF   |        |          |          | <u> </u> |       |         | L]       |          |
|                          | Massive unit with no internal stratification as above but contains abundant feldspar        |        | ļ        |          | <u> </u> |       |         | L]       | L        |
|                          | crystal fragments locally contains 1-2% disseminated pyrite and pyrite veinlets. Basal      |        | ļ        |          |          |       |         | l        |          |
|                          | contact at 70° to core axis.  |        | ļ        |          |          |       |         | l        |          |
|                          |   |        |          |          |          |       |         |          | L        |
| 78.1 - 83.5              | ANDESITIC LAPILLI-ASH TUFF  |        | ļ        | <u> </u> |          |       |         | l        |          |
| а.                       | Medium grey green with diffuse, generally subrounded, feldspar and pyroxene phyric flow     |        | ļ        | <u> </u> |          |       |         | j]       |          |
|                          | fragments. Rare chert fragments up to 2.5 cm occur.   |        |          |          |          |       |         |          |          |
|                          | 78.8, 79.3, 80.0 m - strongly bleached areas containing 2-5% pyrite veinlets and patches up |        | ļ        | <u> </u> | ļ        | L     |         | L        | L        |
|                          | to 2.5 cm occur associated with strontianite (soft, milk white mineral) veinlets. Pyrite    |        | ļ        | ļ        | ļ        | L     |         | ļ!       | L        |
|                          | appears to alter matrix and feldspar crystals within the bleached area.                     |        | I        |          | 1        |       | l       | L!       |          |
|                          | 82.5-83.4 m - quartz, calcite, pyrite breccia vein about 3 cm wide.                         | İ      | L        | <u> </u> | <u> </u> |       |         | <u> </u> |          |
|                          |   |        |          |          | <u> </u> |       |         |          |          |

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| FOOTAGE       | NESCRIPTION  |        |          |          | 1        | ΔΝΔ | 1 7519 | (000 | •)        |
|---------------|--|--------|----------|----------|----------|-----|--------|------|-----------|
| FROM TO       |  |        | EDON     | TTO      | 1 4 0    |     | 7- 1   |      | <u>17</u> |
| 83.5 - 85.4   | ANDESTITC ASH TOFF   | SAMPLE | TRUM     | 110      | PA       | PD  | Zn     | ับบ  |           |
|               | As above.  |        |          |          |          |     |        |      |           |
|               |  |        |          |          |          |     |        |      |           |
| 85.4 - 87.7   | ANDESITIC LAPILLI-ASH TUFF   |        |          | T        |          |     |        |      |           |
|               | As above. Contains 30-40% lanilli up to 8.5 cm.  |        | 1        |          |          |     |        |      |           |
|               |  |        | <u> </u> | +        |          |     |        |      |           |
|               |  |        | <u> </u> |          | +        |     |        |      |           |
| 87.7 - 87.8   | CHERTY ASH TUFF  |        |          |          |          |     |        |      |           |
|               | Medium grey green, aphyric and well laminated at base; 65° to core axis.                   |        | L        |          |          |     |        |      |           |
|               |  |        |          |          |          |     |        |      |           |
| 87.8 - 108.6  | ANDESITIC LAPILLI-ASH TUFF   |        |          |          |          |     |        |      |           |
|               | Medium green. The moderately calcareous matrix contains 30-40% matrix supported            |        |          |          |          |     |        |      |           |
|               | cubandular subcurded andesitic flow fragments  |        |          | +        |          |     |        |      |           |
|               | Subangulai - Subi bundeu andesitte internet aginents.                                      |        |          | +        |          |     |        |      |           |
|               | 89.5, 91.3 m - abundant quartz, calcite, chiorite, pyrite veinlets and locally developed   |        |          | +        | <b> </b> |     |        |      |           |
|               | pyritic patches. Up to 5% pyrite.  |        |          |          |          |     |        |      |           |
|               | 95.6-97.2 m - lapilli-ash tuff with a crystal rich matrix.                                 |        |          |          | [        |     |        |      |           |
|               | 100.8-101.4 m - 25-30% fragments generally about 7.5 cm almost a tuff-breccia.             |        |          |          |          |     |        |      |           |
|               | 105.5. 105.7. 105.8 m - pyritic patches up to 2.5 cm.                                      |        |          |          |          |     |        |      |           |
|               |  |        | 1        | 1        |          |     |        |      |           |
| 100 0 100 1   | ANDESTTIC ASU THEE WITH MUDSTONE EDACHENTS   |        | +        | +        | <b>*</b> |     |        |      |           |
| 108.6 - 109.1 | ANDESITIC ASH TUFF WITH MUDSIONE FRAGMENTS   |        | <u> </u> | +        |          |     |        |      |           |
|               | Weakly calcareous, fine-grained ash matrix contains subrounded-angular, <1-5 mm mudstone   |        | ļ        |          |          |     |        |      |           |
|               | and andesitic flow fragments. Sharp basal contact at 48° to core axis.                     |        |          |          |          |     |        |      |           |
|               |  |        |          |          |          |     |        |      |           |
| 109.1 - 131.5 | INTERBEDDED ANDESITIC ASH/LAPILLI-ASH TUFF AND CHERTY ASH CHARACTERIZED BY ACCRETIONARY    |        |          |          |          |     |        |      |           |
|               | LAPTILT AND ABUNDANT, SEDIMENTARY CLASTS   |        |          |          |          |     |        |      |           |
|               | Light to medium grey colour and weakly moderately calcareous                               |        |          | <u> </u> | +        |     |        |      |           |
|               | Light to meaturing the corour and weakly-inductive carear coust.                           |        |          | +        | +        |     |        |      |           |
|               | 109.1-111.8 M - Incerbedded very the contine-grained striceous ash cutt concatning few     |        |          |          | +        |     |        |      |           |
|               | andesitic fragments. Locally up to 40% accretionary lapilli, 2-18 mm occur in              |        |          |          |          |     |        |      |           |
|               | siliceous/cherty layers up to 16 cm thick. Accretionary lapilli are subrounded-rounded and |        |          |          |          |     |        |      |           |
|               | consist of a calcareous ash core rimmed by silica. Unit contains 2-5% black mudstone       |        |          | 1        |          |     |        |      |           |
|               | fragments 1-4 mm and locally up to 20% subangular volcanic fragments up to 5mm.            |        |          |          |          |     |        |      |           |
|               | 110 7 m _ hedding at 45° to core axis.   |        | 1        | 1        | 1        |     |        |      |           |
|               | 110.7 III - Dedding at 40 to tole axis:  |        | <u> </u> | +        |          |     |        |      |           |
|               |  | l      | I        | 1        | 1        |     |        |      | L         |

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| FOOTAGE       |   |        |          |     |           |     |       |        |           |
|---------------|---|--------|----------|-----|-----------|-----|-------|--------|-----------|
| FRUM IU       |   | TOMPLE |          | 1=0 | +         | AN/ | LYSIS | ) (ppr | <u>n)</u> |
| 109.1 - 131.5 | 1 111.8-112.5 m - interbedded fine-coarse asn/lapilii-asn tuff. Unit contains 3 lapilii asn | SAMPLE | FROM     | 10  | <u>PA</u> | PD  | Zn    | Cu     | <b></b>   |
| continued     | beds, 2 cm, 3 cm and / cm thick (40°, 4/°, 42°, 38° to core axis) containing /0-90%         |        | <u> </u> |     |           |     |       |        | <b></b>   |
|               | fragments (60% andesite, 1-3 mm, 40% sedimentary, 1-9 mm). The matrix appears light green   |        | ļ        |     |           |     |       |        | ļ         |
|               | and siliceous. The basal bed is reverse graded. Fine-grained ash beds are light-medium      |        |          | 1   |           |     |       |        | L         |
|               | grey, siliceous and contain accretionary lapilli.   |        |          |     |           |     |       |        |           |
|               | 112.5-117.6 m - lapilli-ash/ash tuff near top containing 60-80% matrix supported fragments  |        |          |     |           |     |       | i      |           |
|               | consisting of light-dark green volcanics, 1-48 mm and mudstone and chert fragments up to 12 |        |          |     |           |     |       |        |           |
|               | mm. Two 3 cmthick ash beds with accretionary lapilli occur (46° to core axis). Towards      |        |          |     |           |     |       |        |           |
|               | the unit's base the ash tuff becomes finer-grained and contains abundant accretionary       |        |          | 1   |           |     |       |        |           |
|               | lapilli.  |        |          |     |           |     |       |        |           |
|               | 117.6-119.4 m - very fine-grained ash with interbedded lapilli-ash tuff. Normal grading     |        |          |     |           |     |       |        |           |
|               | defines the internal stratification.  |        |          |     |           |     |       |        |           |
|               | 119.4-121.1 m - fine-grained lapilli-ash tuff interbedded with contorted and slumped dark   |        |          |     |           |     |       |        |           |
|               | grey ash and very fine-grained medium-light grey ash tuff. Good contacts at 54°, 55° to     |        |          |     |           |     |       |        |           |
|               | core axis.  |        |          |     |           |     |       |        |           |
|               | 121.4-122.4 m - slumped and contorted, very fine-grained ash tuff.                          |        |          |     |           |     |       |        |           |
|               | 122.4-122.5 m - <1-4 mm laminated chert/cherty tuff with interlaminated 5-12 mm ash at 50°  |        |          |     |           |     |       |        |           |
|               | to core axis.   |        |          |     |           |     |       |        |           |
|               | 122.5-122.8 m - medium green, andesitic lapilli tuff containing 80% flow fragments, 2-40    |        | 1        |     |           |     |       |        |           |
|               | mm. Exhibits no sedimentary fragments or structures.  |        |          |     |           |     |       |        |           |
|               | 122.8-123.0 m - laminated chert/ash tuff.   |        |          |     | 1         |     |       |        |           |
|               | 123.0-123.1 m - quartz, calcite vein.   |        |          |     |           |     |       |        |           |
|               | 123.1-124.6 m - coarse to fine-grained lapilli-ash tuff with interbeds of very fine-grained |        |          | +   | 1         |     |       |        |           |
|               | ash.  |        |          |     |           |     |       |        |           |
|               | 124.6-128.9 m - interbedded accretionary ash tuff with fine-coarse lapilli-ash tuff. Ash    |        |          |     | 1         |     |       |        |           |
|               | tuff beds are 8-45 cm thick and contain up to 60% accretionary lapilli. 2-8 mm and ovoid.   |        |          | 1   | 1         |     |       |        |           |
|               | A total of 7 beds occur. 52°-70° to core axis. Interbedded lapilli-ash tuff is as above.    |        |          | 1   |           |     |       |        |           |
|               | both normally and reverse graded locally.   |        | 1        |     | 1         |     |       |        |           |
|               | 128.9-129.0 m - quartz, calcite, chlorite vein with 1-2 mm chloritic halo.                  |        | 1        | +   | 1         |     |       |        |           |
|               | 129.0-129.5 m - interbedded/laminated very fine-grained ash and cherty ash tuff             |        | 1        |     | 1         |     |       |        | ·         |
|               | characterized by contorted and slumped, 1-26 mm, dark-light grey ash laminations 43°, 52°   |        | 1        |     | +         |     |       |        |           |
|               | to core axis.   |        | 1        | 1   |           |     |       |        |           |
|               |   | I      |          |     |           |     |       | J      | <u> </u>  |

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| FOOTAGE<br>FROM TO | DESCRIPTION   |        |   |      | 1        | AN/      |      | (000    | 1)       |
|--------------------|---|--------|---|------|----------|----------|------|---------|----------|
| 109.1 - 131.5      | 129.5-130.8 m - medium grey reverse graded ash tuff containing zones of increased fragment              | SAMPLE | FROM  | TO   | Ag       | Pb       | Zn   | Cu      | <u> </u> |
| continued          | content and size defining a wide stratification. Tuff contains 60-80% fragments (80-85%                 |        |   |      |          |          |      |         |          |
|                    | volcanic, 15-20% sedimentary, occasional massive pyrite 2-5 mm). 40° to core axis lower                 |        |   |      |          |          |      |         |          |
|                    | contact.  |        | ļ   | ┢─── |          | ···      |      |         |          |
|                    | 130.8-131.2 m - laminated-bedded, light-medium grey chert and fine to coarse-grained ash                |        | <b> </b>                                      | ┥─── |          |          |      |         |          |
|                    | tuff. 1-10 mm laminations, 40° to core axis.  |        |   | +    |          |          |      |         |          |
|                    | 131.2-131.5 m - calcite, quartz, chlorite veins + sheated rock.   |        |   | 4    | +        |          |      |         |          |
| 131.5 - 133.5      | ANDESITIC LAPILLE-ASH TUFF  |        | 1   | 1    | 1        |          |      |         |          |
| 10110 10010        | Medium green and contains 30-40% poorly sorted, heterolithic, matrix supported, angular to              |        |   |      |          |          |      |         |          |
|                    | subangular andesite lapilli up to 26 mm and rare sedimentary fragments.                                 |        |   |      |          |          |      |         |          |
|                    |   |        | ļ   |      | +        |          |      |         |          |
| 133.5 - 133.7      | LIMESTONE BRECCIA   |        | <u> </u>                                      | +    |          |          |      |         |          |
|                    | Medium-dark grey containing subrounded-rounded limestone tragments up to 4.5 cm in a limey              |        | <u> </u>                                      | +    |          |          |      |         | <u> </u> |
|                    | structures.   |        |   | +    |          | <u> </u> |      | · · - · |          |
|                    |   |        |   |      | +        | <u> </u> |      |         |          |
| 133.7 - 135.2      | LIMESTONE WITH MINOR CHERT INTERBEDS  |        | 1   |      |          |          |      |         |          |
|                    | Cherty intervals up to 4 cm thick, 75° to core axis; grades downwards into underlying unit.             |        |   |      |          |          |      |         |          |
|                    |   |        | ļ   |      | -        |          |      |         |          |
| 135.2 - 135.6      | LIMESTONE WITH CHERT FRAGMENTS  |        | <u> </u>                                      |      | <u>_</u> |          |      |         |          |
|                    | Contains <3-47 mm chert fragments of irregular shape due to slumping.                                   |        | <u> </u>                                      |      |          |          |      |         |          |
| 125 6 126 2        |   |        | <u> </u>                                      | +    |          |          |      |         |          |
| 155.0 - 150.2      | Dark bluish grev, massive, recrystallized chert with minor limev interbeds.                             |        | <u>†                                     </u> | 1    | +        | <u> </u> |      |         |          |
|                    |   |        | 1   | 1    |          |          |      |         |          |
| 136.2 - 138.9      | ANDESITIC ASH TUFF  |        |   |      |          |          |      |         |          |
|                    | Medium grey green, massive, homogeneous, containing few lapilli and is locally well                     |        | <b> </b>                                      |      |          |          |      |         |          |
|                    | laminated 60°, 63° to core axis.  |        |   |      |          | <b></b>  |      |         | <b> </b> |
|                    |   |        |   |      |          |          |      |         | <u> </u> |
| 138.9 - 144.0      | LIMEDIUNE<br>  Black dark grow locally appears laminated (contorted) and brecciated - Contains abundant |        | +   | +    | +        |          | ┼─── |         | <u> </u> |
|                    | I DIACK-WAIK HIEY, INCALLY APPEars laminated (contented) and Diecelated. Contains abundant              | I      |   | 1    |          | 1        | L    | l       | L        |

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| FOOTAGE       |  |          |          |         |          |          |       |         |           |
|---------------|--|----------|----------|---------|----------|----------|-------|---------|-----------|
| FROM TO       | DESCRIPTION  | <u>.</u> |          |         |          | <u> </u> | LYSIS | 5 (pp1  | <u>ı)</u> |
| 138.9 - 144.0 | calcite-graphite shears.   | SAMPLE   | FROM     | TO      | Ag       | Pb       | Zn    | Cu      |           |
| continued     |  |          |          |         |          |          |       |         |           |
|               |  |          |          |         |          |          |       |         |           |
| 144.0 - 144.2 | Strong calcite, graphite shear - FAULT - 60°, 43° to core axis.  |          |          |         |          |          |       |         |           |
|               |  |          |          |         |          |          |       |         |           |
| 144.2 - 146.1 | ANDESITIC LAPILLI-ASH/ASH TUFF   |          |          |         |          |          |       |         |           |
|               | Matrix is weakly calcareous, dark green-dark grey. Contains 65-75% feldspar rich andesitic                                       |          |          |         |          |          |       |         |           |
|               | fragments, angular-subangular, matrix supported, poorly sorted, <2-34 mm. Tuff grades  |          |          |         |          |          |       |         |           |
|               | downwards into a medium-grained massive feldspar rich ash tuff (144.8-145.3 m) and back  |          |          |         |          |          |       |         |           |
|               | into lapilli-ash tuff.   |          |          |         |          |          |       |         |           |
|               | 145.0 m - quartz, calcite, graphite shear 45° to core axis.  |          |          |         |          |          |       |         |           |
|               |  |          |          |         |          |          |       |         |           |
| 146.1 - 148.6 | INTERLAMINATED/INTERBEDDED SILICEOUS ASH/ASH TUFF (WATERLAIN TUFF)   |          |          |         |          |          |       |         |           |
|               | 1-4 mm laminated siliceous ash occur in 1-2.5 cm thick beds. Ash tuff is 5-40 cm thick   |          |          |         |          |          |       |         |           |
|               | locally normally graded beds, and is medium green-green grey.  |          |          |         |          |          |       |         |           |
|               | 136.1-146.4 m - bedding 53° to core axis.  |          |          |         |          |          |       |         |           |
|               | 146.5 m - bedding 45°, 40° to core axis.   |          |          |         |          |          |       |         |           |
|               | 147.3 m - bedding 50° to core axis.  |          |          |         | <u> </u> |          |       |         |           |
|               | 147.4 m - bedding 40° to core axis.  |          |          |         | <u> </u> |          |       |         | L         |
|               |  |          |          |         | ļ        |          |       |         |           |
| 148.6 - 151.2 | ANDESITIC ASH/LAPILLI-ASH TUFF   |          | ļ        | +       | <u> </u> |          |       |         | <b> </b>  |
|               | Medium green, poorly sorted, matrix supported feldspar-rich fragments, as above. No  |          | ļ        | <b></b> |          |          |       |         | ļ         |
|               | internal stratification.   |          | <u> </u> |         | <u> </u> |          |       |         | <u> </u>  |
| 151 0 151 0   | Constitute stress 750 to some suit   |          | <u>}</u> | +       | +        | <u> </u> |       |         | <b> </b>  |
| 151.2 - 151.3 | Graphitic shear, 75° to core axis.   |          | <u> </u> |         |          |          |       |         | <b> </b>  |
| 161 2 162 4   |  |          |          | +       |          |          |       |         | <b> </b>  |
| 131.3 - 132.4 | ( ANUESITIC LAFILLI-ASH/LAFILLI TUFF<br>Madium dank annon - Contains 60 90% (1 75 m annular subrounded foldsoar physic fragments |          |          | +       | +        |          |       |         | ├         |
|               | Meulum-uark green. Concarns ou-oux, (1-/5 m, angular-subrounded reluspar phyric fragments  |          |          |         | +        |          |       |         | <u>├</u>  |
|               | anu laiyei ciasts ui lapilili-ash tuli. Abuut 1-2% line-ylaineu uisseninateu pyrite is   |          | <u> </u> | +       | +        |          |       | <b></b> | <b>├</b>  |
|               | present.   |          | +        | +       | +        |          |       |         | <u> </u>  |
| 152.4         |  |          | <u> </u> | +       | +        |          |       |         | <u> </u>  |
| <u></u>       |  | I        | 1        |         |          | L        |       | L       | L         |

#### COMINCO LTD.

| Property:<br>Commenced:<br>Completed:<br>Co-ordinates:<br>Objective: | KITSAULT<br>August 24, 1988<br>August 26, 1988<br>0+18W 7+50N<br>to test down dip of the<br>west end of the west<br>end showing  | District:<br>Location:<br>Core Size:<br>Claim:<br>Collar Dip:<br>Length: | K88-7 SUMMARY<br>76.0, 152.4 m<br>: -70°<br>160°<br>90-95%                               | Hor. Comp<br>Vert. Com<br>Logged by<br>Date:               | :<br>p:<br>: P.A.<br>Augu  | K88-7<br>SUMMARY<br>Page 1 |      |    |    |    |         |       |         |
|--|--|--|--|--|--|----------------------------|------|----|----|----|---------|-------|---------|
| FOOTAGE  | cha showing  |  |  |  |  |                            |      |    | 1  | A  | NAL YST | S (pp | m)      |
| FROM TO  | DESCRIPTION  |  |  |  |  | SAMPLE                     | FROM | TO | Aq | Pb | Zn      | Cul   | <u></u> |
| 0 - 1.5  | Casing.  |  | · · · · · · · · · · · · · · · · · · ·  |  |  |                            |      |    |    |    |         |       |         |
| 1.5 - 73.6   | BASALTIC LAPILLI-ASH TUF<br>With minor interbedded a<br>veinlets within zones of   | F<br>sh tuff - dar<br>ˈbleached roc                                      | k green to maroon c<br>k.  | olour. Loca  | ally contains pyritic  |                            |      |    |    |    |         |       |         |
| 73.6 - 75.5  | ANDESITIC ASH TUFF WITH<br>Medium grey green to gre<br>deformational features.<br>Impression is one of a <u>c</u><br>mechanisms. | INTERBEDDED-I<br>y. Fine ash<br>Unit also co<br>לואלבוק deri             | NTERLAMINATED FINE-<br>beds and chert lami<br>ntains epiclastic(?<br>ved volcanic debris | COARSE GRAIN<br>nations show<br>) fragments<br>deposited b | NED ASH TUFF AND CHERT<br>soft sediment<br>near its base.<br>by epiclastic |                            |      |    |    |    |         |       |         |
| 75.5 - 108.6   | ANDESITIC ASH/LAPILLI-AS<br>Medium green. Contains<br>fragments and shows no i<br>volcanic source.                               |  |  |  |  |                            |      |    |    |    |         |       |         |
| 108.6 - 131.5  | INTERBEDDED ANDESITIC AS<br>LAPILLI AND ABUNDANT SED<br>Light-medium grey and we   | H/LAPILLI-ASH<br>IMENTARY CLAS<br>akly-moderate                          | TUFF AND CHERTY AS<br>TS<br>ly calcareous.   | H CHARACTER  | ZED BY ACCRETIONARY  |                            |      |    |    |    |         |       |         |
| 131.5 - 133.5  | ANDESITIC LAPILLI-ASH TU<br>Medium green with rare s   | FF<br>edimentary fr  | agments.   |  |  |                            |      |    |    |    |         |       |         |
| 133.5 - 135.6  | LIMESTONE<br>Medium to dark grey lime<br>downwards.  | stone with in  | creasing component   | of laminated   | i and fragmented chert   |                            |      |    |    |    |         |       |         |
| 135.6 - 136.2  | CHERT  |  |  |  |  | _ [                        |      |    |    |    |         |       |         |

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| FOOTAGE       | DESCRIPTION  |        |          |          | 1        | ANA | LYSIS | ( 00m | 1) |
|---------------|--|--------|----------|----------|----------|-----|-------|-------|----|
| 136.2 - 138.9 | ANDESITIC ASH TUFF   | SAMPLE | FROM     | TO       | Ag       | Pb  | Zn    | Cu    |    |
| 138.9 - 144.0 | LIMESTONE  |        |          |          |          |     |       |       |    |
| 144.0 - 144.2 | FAULT  |        |          |          |          |     |       |       |    |
| 144.2 - 146.1 | ANDESITIC LAPILLI-ASH/ASH TUFF (FOOTWALL VOLCANICS)<br>Contains 65-75°, matrix supported, poorly sorted, volcanic fragments up to 34 mm.<br>Interpreted as footwall due to the abundance of feldspar crystals. |        |          |          |          |     |       |       |    |
| 146.1 - 148.6 | INTERBEDDED/INTERLAMINATED ASH/SILICEOUS ASH TUFF<br>Well bedded and locally normally graded.  |        |          |          |          |     |       |       |    |
| 148.6 - 151.2 | ANDESITIC ASH/LAPILLI-ASH TUFF   |        | <u> </u> | <u> </u> |          |     |       |       |    |
| 151.2 - 151.3 | Graphitic shear.   |        |          |          |          |     |       |       |    |
| 151.3 - 152.4 | ANDESITIC LAPILLI-ASH/LAPILLI TUFF   |        |          | <u> </u> |          |     |       |       |    |
| 162 4         |  |        |          | 1        |          |     |       |       |    |
| 152.4         |  |        | <u> </u> | 1        |          |     |       |       |    |
|               |  |        |          |          |          |     |       |       |    |
|               |  |        |          |          |          |     |       |       |    |
|               |  |        |          | +        | <u> </u> |     |       |       |    |
|               |  |        | <u> </u> | <u> </u> |          |     |       |       |    |
|               |  |        |          |          |          |     |       |       |    |
|               |  |        |          |          |          |     |       |       |    |
|               |  |        |          |          |          |     |       |       |    |
|               | L  |        |          |          |          |     |       |       |    |