- 268.35 m basalt, dark red, vesicular, chlorite-filled amygdales
- 268.80 m core missing
- 269.40 m basalt, dark red, very vesicular, amygdales filled with laumontite and calcite
- 281.20 m basalt, dark red, fine-grained, massive
- 285.30 m basalt, dark grey-red, basal part massive to top vesicular, successive increase of amygdales towards (flow) top, epidote in amygdales
- 288.90 m basalt, dark red, fine-grained, massive
- 294.50 m basalt, dark red, fine-grained, massive, few chlorite-filled amygdales, many epidote-filled shear zones
- 297.00 m basalt, dark red, very vesicular, amygdales filled with laumontite and calcite
- 306.84 m basalt, dark grey, fine-grained, massive, some vesicular layers with chlorite-filled amygdales
- 310.00 m basalt, dark red, very vesicular, upper 50 cm brecciated (flow top breccia) with matrix of greenish-white quartzitic sandstone
- 313.25 m breccia, mass-supported, matrix (60%) consisting of quartzitic, greenish-white sandstone, clasts consisting of vesicular basalt
- 317.30 m breccia, clast supported, 75% very vesicular basalt, 25% quartzitic, fine-grained sandstone
- 320.30 m basalt, dark red, vesicular, very little sediment (sandstone)
- 320.90 m breccia (flow top breccia), matrix consisting of quartzitic sandstone, native Cu
- 332.70 m basalt, dark grey, fine-grained, massive - 333.10 m dio with epidote-filled fractures
- 337.60 m basalt, dark grey, fine-grained, massive
- 340.65 m vein, calcite filling with native Cu
- 341.45 m basalt, dark grey, fine-grained, massive
- 340.75 m breccia, 60% basalt, 40% sandstone, white-green, fine-grained, quartzitic

TOTAL DEPTH 340.35 m
Appendix II: Sketch map illustrating the position of the geological sections (compare Chapter 5) in the Klein Aub area and town boundaries.
### APPENDIX III, A

<table>
<thead>
<tr>
<th>Sample</th>
<th>Fe (%)</th>
<th>Mg (%)</th>
<th>Al (%)</th>
<th>Si (%)</th>
<th>Na (%)</th>
<th>K (%)</th>
<th>Ca (%)</th>
<th>Mn (%)</th>
<th>Zn (%)</th>
<th>Ba (%)</th>
<th>Y (%)</th>
<th>Ce (%)</th>
<th>Th (%)</th>
<th>U (%)</th>
<th>Zr (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Table of XRF analyses and GIPW norms of acid silicate rocks from the Neck, qf Formation and its equivalents.**
# APPENDIX HLC

Table of XRF analyses of basic volcanic rocks of the Upland Sequence (probably equivalents of the Downesport Formation) from the Doonadvis, Witch and Lake N Geya areas.
### APPENDIX IV

| Date     | K | O | Si | Al | Ca | Mg | Na | Cr | Fe | Co | Zn | Cu | Mn | Ni | Pb | Zr | Y | Hf | Nb | Mo | V | W |
|----------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|----|----|----|----|
| 24/08/80 |   |   | 75 | 13 | 4  | 3  | 2  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26/08/80 |   |   | 74 | 13 | 3  | 4  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27/08/80 |   |   | 73 | 13 | 3  | 5  | 2  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

**Notes:**
- Date format: DD/MM/80.
- Values represent concentration levels in ppm (parts per million).

**Appendix IV:** Table of XRF analyses of sediment-hosted Cu ores from different localities of Kalahari Copperbelt.
### APPENDIX V

#### Table of Data

<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Copper (Cu)</th>
<th>Zinc (Zn)</th>
<th>Lead (Pb)</th>
<th>Nickel (Ni)</th>
<th>Phosphorus (P)</th>
<th>Silica (SiO₂)</th>
<th>Sulfur (S)</th>
<th>Total Oxidation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.12</td>
<td>0.35</td>
<td>0.08</td>
<td>0.05</td>
<td>0.5</td>
<td>0.02</td>
<td>0.03</td>
<td>1.5</td>
</tr>
<tr>
<td>B</td>
<td>0.13</td>
<td>0.36</td>
<td>0.09</td>
<td>0.06</td>
<td>0.6</td>
<td>0.03</td>
<td>0.04</td>
<td>1.6</td>
</tr>
<tr>
<td>C</td>
<td>0.14</td>
<td>0.37</td>
<td>0.10</td>
<td>0.07</td>
<td>0.7</td>
<td>0.04</td>
<td>0.05</td>
<td>1.7</td>
</tr>
</tbody>
</table>

*Note: The above table represents a sample of data for various elements found in different sample locations.*

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**Appendix V:** Table of data - copper, zinc, lead, nickel, phosphorus, silica, sulfur, total oxidation in various sample locations. Values are given in ppm.
APPENDIX VI

(i) Scientific Publications:


(ii) Abstracts

Borg, G. & Maiden, K.J. (1986). Stratabound Copper Silver-Gold Mineralization of Late Proterozoic Age along the margin of the Kalahari Craton in SWA/Namibia and Botswana Canadian Mineralogist,24,178.


