Hereroite  

\[ \text{[Pb}_{32}(\text{O},\square)_{21}]\text{(AsO}_4)_{21}(\text{Si,As,V,Mo})\text{O}_4\text{]}\text{Cl}_{10} \]

Crystal Data: Monoclinic.  
Point Group: 2/m.  
As grains < 1 mm and in aggregates to 3 mm.

D(meas.) = n.d.  
D(calc.) = 8.15


Optical Class: n.d.

a = 23.139(4)  
b = 22.684(4)  
c = 12.389(2)  
\( \beta = 102.090(3)\degree \)

Z = 4

X-ray Powder Pattern: Kombat mine, Namibia, 2.982 (100), 2.795 (47), 1.986 (24), 1.641 (24), 3.512 (23), 3.901 (21), 1.7580 (14)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PbO</td>
<td>91.90</td>
<td>91.02</td>
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<tr>
<td>As₂O₅</td>
<td>3.81</td>
<td>2.93</td>
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<tr>
<td>SiO₂</td>
<td>0.74</td>
<td>1.53</td>
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<tr>
<td>V₂O₅</td>
<td>0.35</td>
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<tr>
<td>MoO₃</td>
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<td>Cl</td>
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<td>4.52</td>
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<tr>
<td>O=Cl₂</td>
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<tr>
<td>Total</td>
<td>100.59</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Kombat mine, Namibia; average of 20 electron microprobe analyses; corresponding to [Pb₂O₂₀(AsO₄)₂][Si₀.₄₈As₀.₂₉V₀.₁₅Mo₀.₀₉]₂Cl₀.₈₄.  
(2) [Pb₂₂(O,□)₃₁][AsO₄]₂[Si₉.₄₈As₈.₇₈V₁.₄₁Mo₀.₁₄]₂Cl₁₀.

Occurrence: Most likely a late-stage, low-temperature hydrothermal (epigenetic) reworking of primary Pb-Cu-Zn-Ag sulfides. Known from a single specimen purchased commercially.

Association: Vladkrivovichevite, asisite, damaraite, kombatite, sahlinite, quartz, native copper, barysilite, hausmannite, jacobsite, manganite.

Distribution: From the Kombat mine, Grootfontein, Namibia.

Name: For the Herero people, one of the indigenous tribes in the region near the Kombat mine.
