Pottsite

Crystal Data:  Tetragonal.  Point Group:  422.  Crystals are prismatic or dipyramidal, showing dominant {101}, with {110}, {103}, {211}, to 1 mm; typically in druses.

Physical Properties:  Tenacity: Brittle.  Hardness = 3.5  D(meas.) = ~7.0  D(calc.) = 7.31


Optical Class:  Uniaxial (−).  ω = 2.40 (Li)  ε = 2.30 (Li)

Cell Data:  Space Group:  I4₁22.  a = 11.084  c = 12.634  Z = 10

X-ray Powder Pattern:  Near Potts, Nevada, USA.

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V₂O₅</td>
<td>26.6</td>
<td>26.63</td>
</tr>
<tr>
<td>Bi₂O₃</td>
<td>34.0</td>
<td>34.11</td>
</tr>
<tr>
<td>PbO</td>
<td>32.4</td>
<td>32.67</td>
</tr>
<tr>
<td>H₂O</td>
<td>6.71</td>
<td>6.59</td>
</tr>
<tr>
<td>Total</td>
<td>99.7</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Near Potts, Nevada, USA; by electron microprobe, average of three analyses, H₂O on a separate sample by the Penfield method; corresponds to H₁.₀₂Pb₀.₉₉Bi₁.₀₀(VO₄)₁.₉₉•2H₂O.
(2) HPbBi(VO₄)₂•2H₂O.

Occurrence:  Found in the oxidation zone of a tungsten-bearing tactite.

Association: Scheelite, junoite, bismutite, clinobisvanite, duhamelite, cersussite, vanadinite.

Distribution:  Found at the Linka mine, Spencer Hot Springs district, Lander Co., about 30 km northwest of Potts, and northeast of Chalk Mountain, Clan Alpine Mountains, Churchill Co., Nevada, USA.

Name:  For Potts, Nevada, USA, nearby the type locality.
