EXPLANATION

COMPOSITION

<table>
<thead>
<tr>
<th>Vanadium-</th>
<th>Nonvanadiferous</th>
</tr>
</thead>
<tbody>
<tr>
<td>uranium</td>
<td>uranium deposits</td>
</tr>
<tr>
<td>deposits</td>
<td></td>
</tr>
<tr>
<td>Group 1</td>
<td>Group 2</td>
</tr>
<tr>
<td>V:U+</td>
<td>V:U+</td>
</tr>
<tr>
<td>3:1 to 15:1</td>
<td>3:1 to 1:2</td>
</tr>
<tr>
<td>Type 1</td>
<td>Type 1</td>
</tr>
<tr>
<td>Type 2</td>
<td>Type 2</td>
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<tr>
<td>Type 3</td>
<td>Type 3</td>
</tr>
</tbody>
</table>

OXIDATION STATE

- High valence (V⁺>V⁵⁺, U⁺>U⁶⁺), oxidized
- Middle valence (V⁺>V⁴⁺, U⁺>U⁵⁺), partly oxidized
- Low valence (V⁺>V³⁺, U⁺>U⁴⁺), unoxidized

Increasing oxidation

Increasing vanadium

 Deposits chiefly in the Salt Wash member of the Morrison formation of Jurassic age

 Deposits in Triassic rocks (chiefly Shinarump member and other sandstones of the lower part of the Chinle formation)

 Cu Copper, indicated where important accessory element

MINERALOGIC-CLASSIFICATION MAP OF URANIUM-VANADIUM DEPOSITS OF THE COLORADO PLATEAU