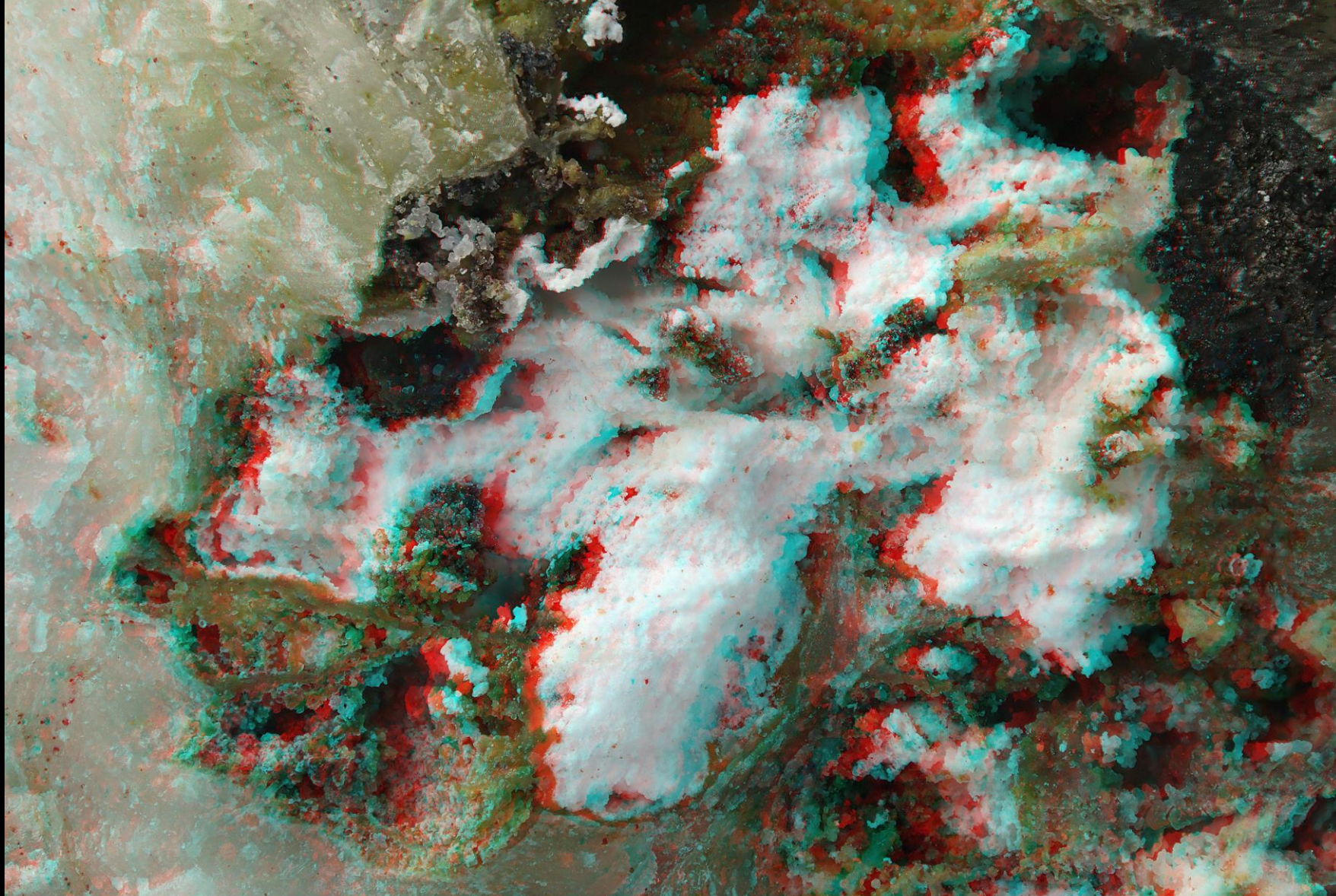


Prospite and Fraipontite from Copperthwaite Vein, North Yorkshire

These 3D images relate to two articles in Journal of The Russell Society, Volume 25, 2022. More specimens are featured here, than was possible to show in the articles.

View through Red-Cyan spectacles with the red filter to the left eye
and from a distance of 40cm (16 inches)



1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

Field width 10.5 mm

White powdery masses intergrown with colourless transparent prosopite partly infilling a cavity in massive laminar baryte lined with brick-red cinnabar. From shallow workings for lead and zinc ores in the Richmond Chert of the

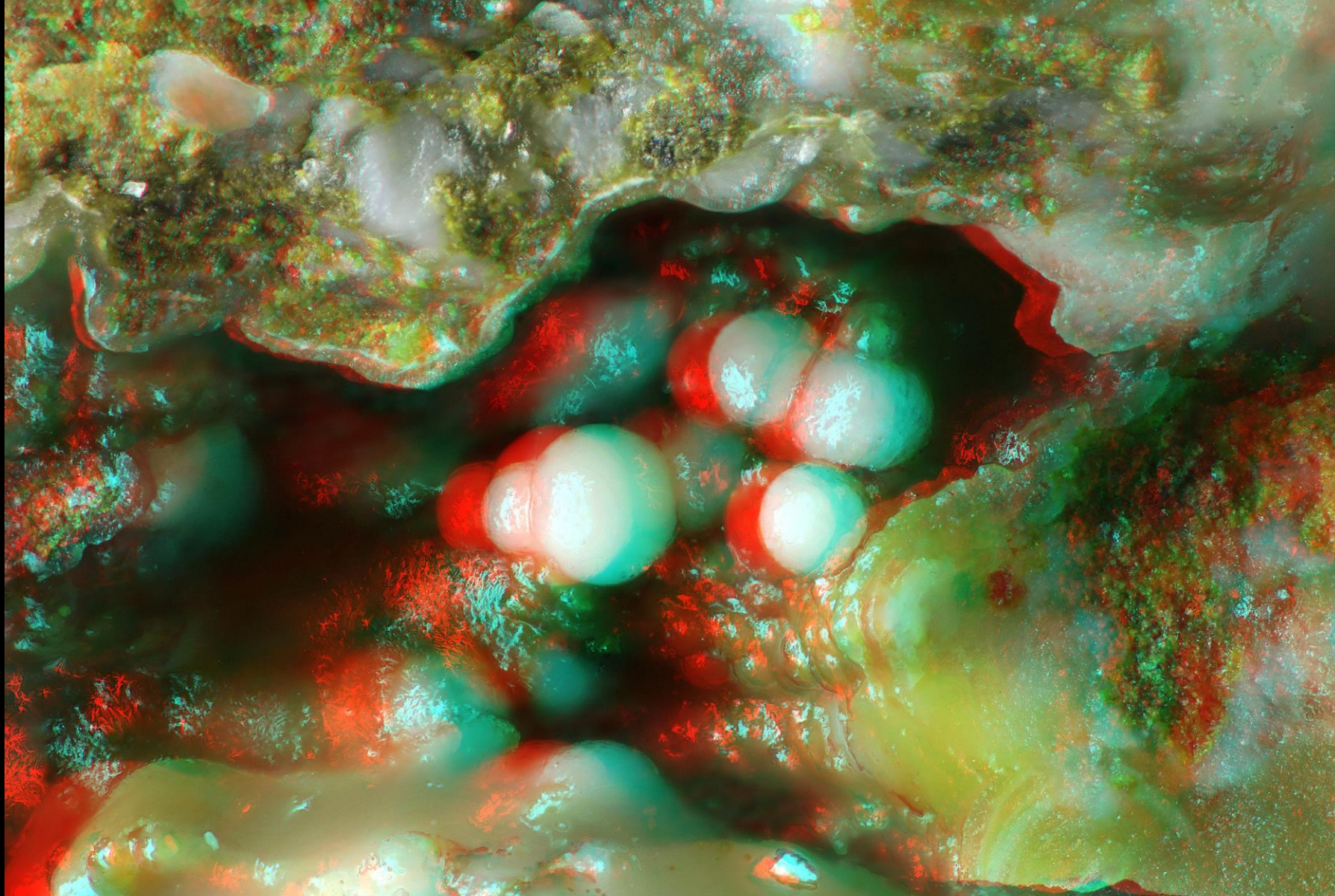
Fig. 2

Copperthwaite Vein NZ 0595 0023, near Reeth, Swaledale, North Yorkshire.

Specimen: Peter Briscoe collection. Photography: John Chapman.

Canon EOS 5DSr camera with Carl Zeiss (West Germany) Luminar 40 mm objective lens on 100 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 140 and 122 30-micrometre steps at 6 degrees via Stackshot rail, with Luminar at fully open aperture, combined in CombineZM.



0.1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

Field width 1.25 mm.

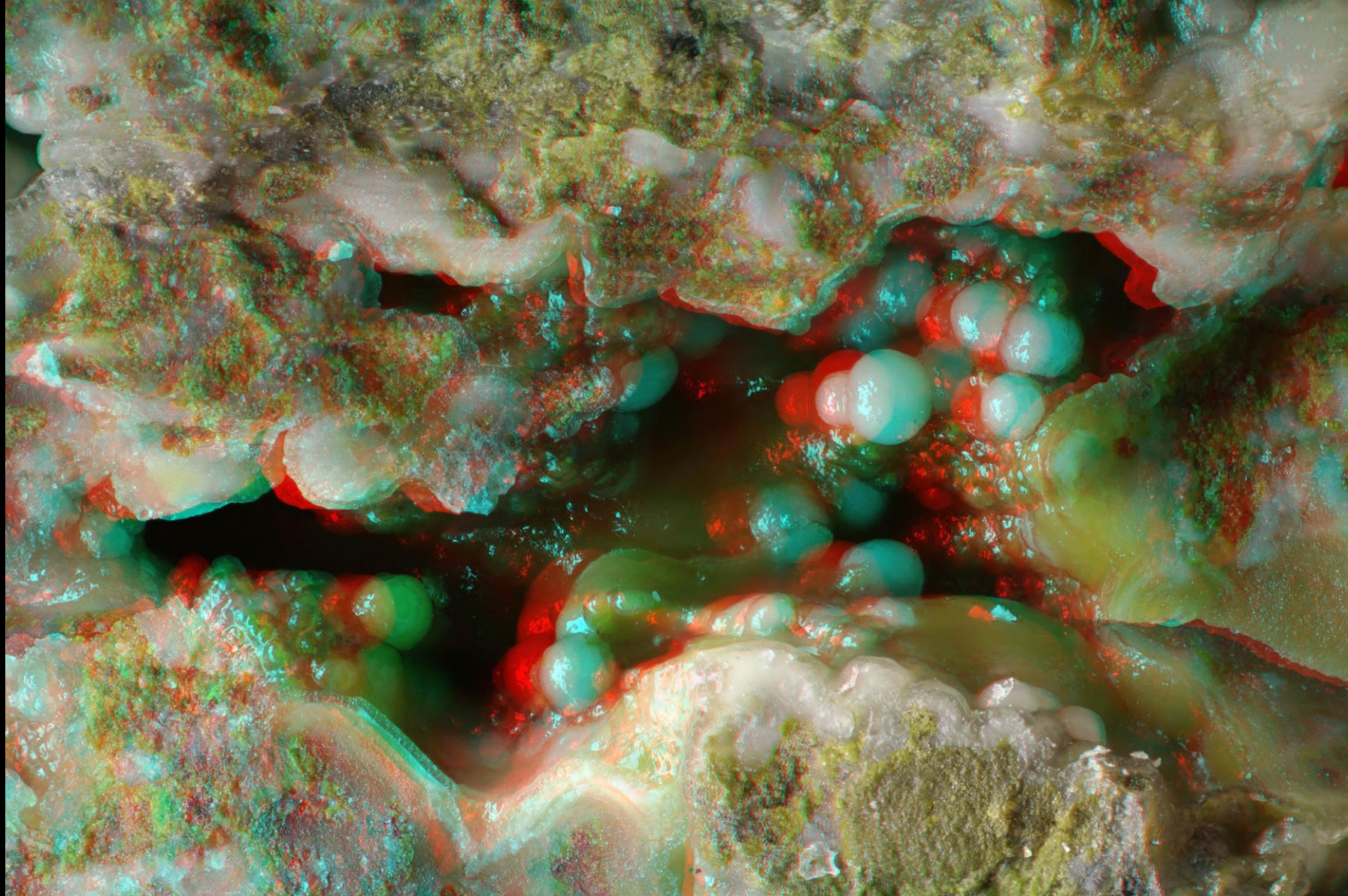
White botryoidal formations coated with a translucent aluminium-rich glaze-like surface.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Leica 140x/0.40 objective lens on 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 152 and 154 4-micrometre steps at 6 degrees via Stackshot rail, combined in CombineZM and rendered in Stereophotomaker.



1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

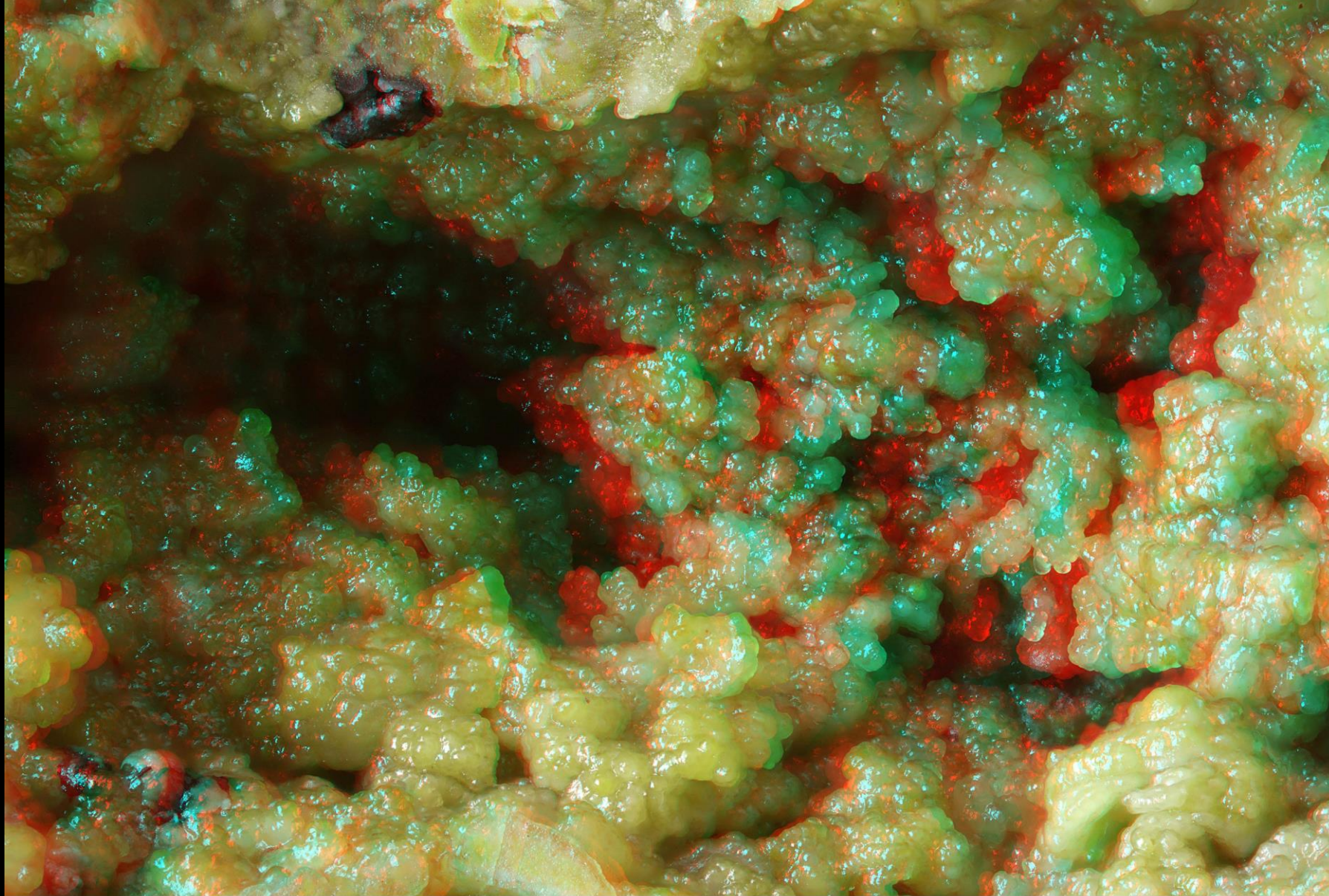
Field width 2.2 mm

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Carl Zeiss (West Germany) Luminar 16 mm objective lens on 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 86 and 87 10-micrometre steps at 6 degrees via Stackshot rail, with Luminar at fully open aperture, combined in CombineZM.



1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

Field width 3.53 mm

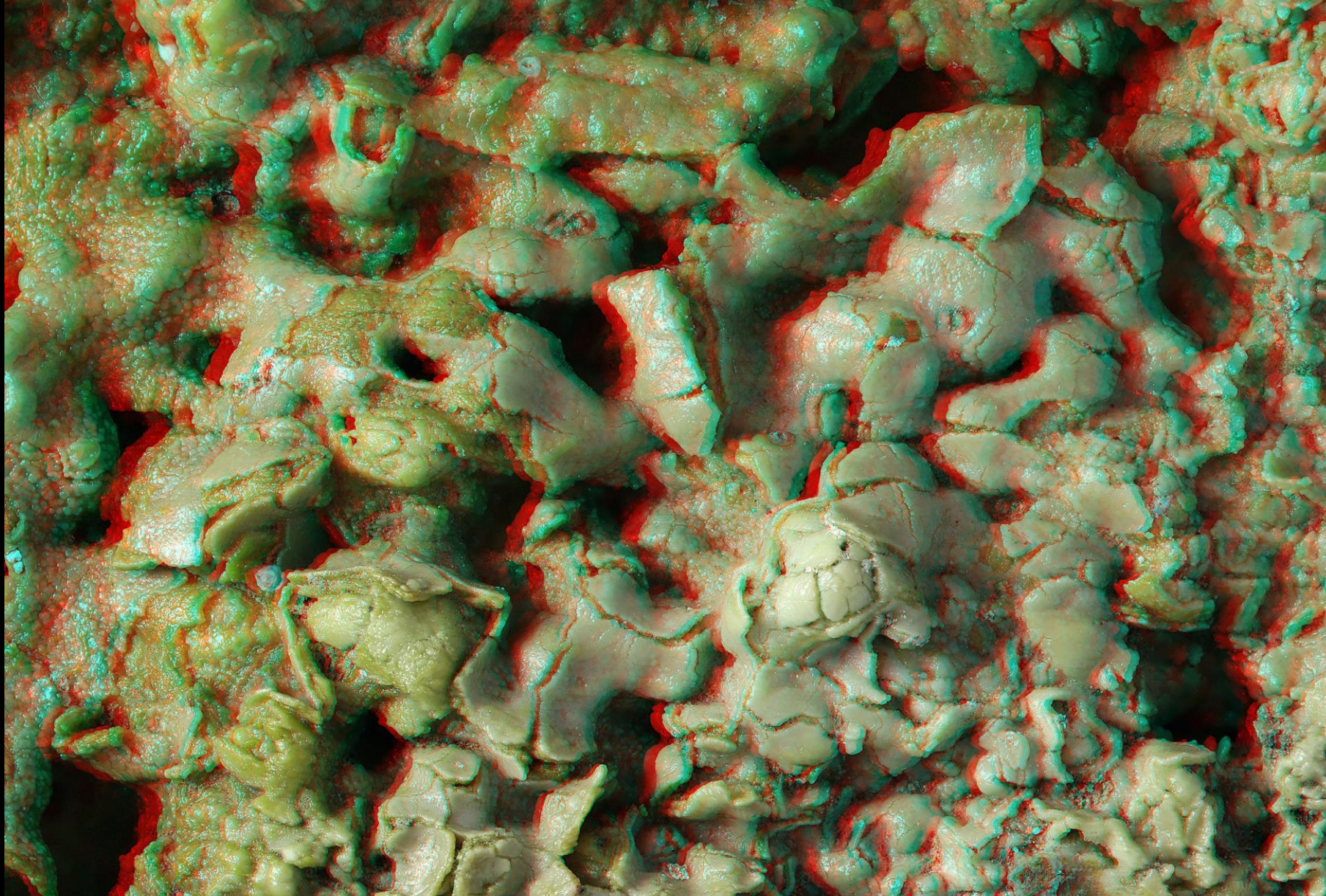
Cavity containing iron stained botryoidal formation.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Carl Zeiss (West Germany) Luminar 25 mm objective lens on 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 169 and 149 15-micrometre steps at 6 degrees via Stackshot rail, with Luminar at fully open aperture, combined in CombineZM.



1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

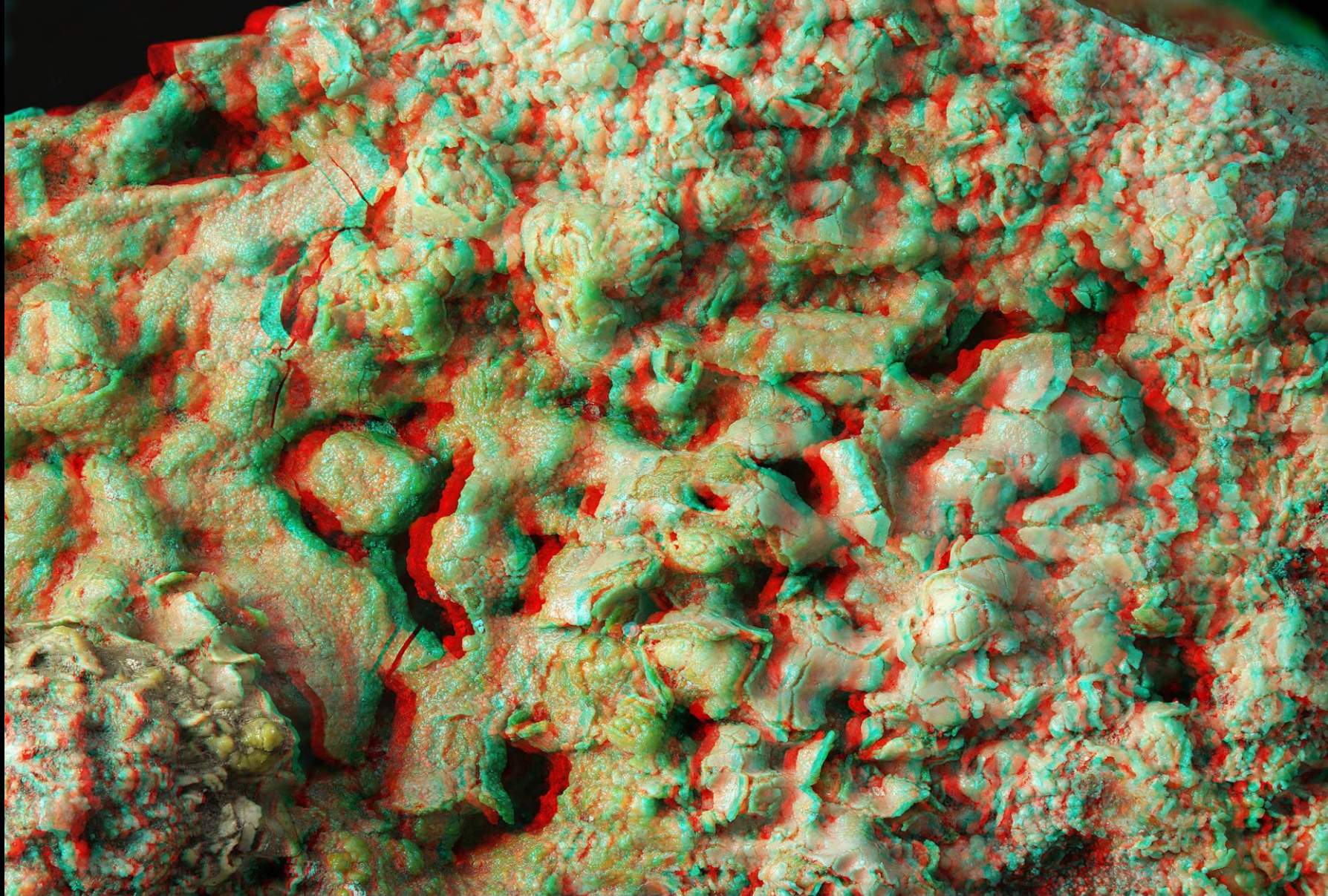
Field width 12.2 mm.

Forming a covering, with possible syneresis structures, over baryte and limonitic material.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Left + right stacks of 88 and 74 50-micrometre steps at 6 degrees via Stackshot rail, with Luminar at aperture 1.5, combined in CombineZM.



1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

Field width 19.05 mm.

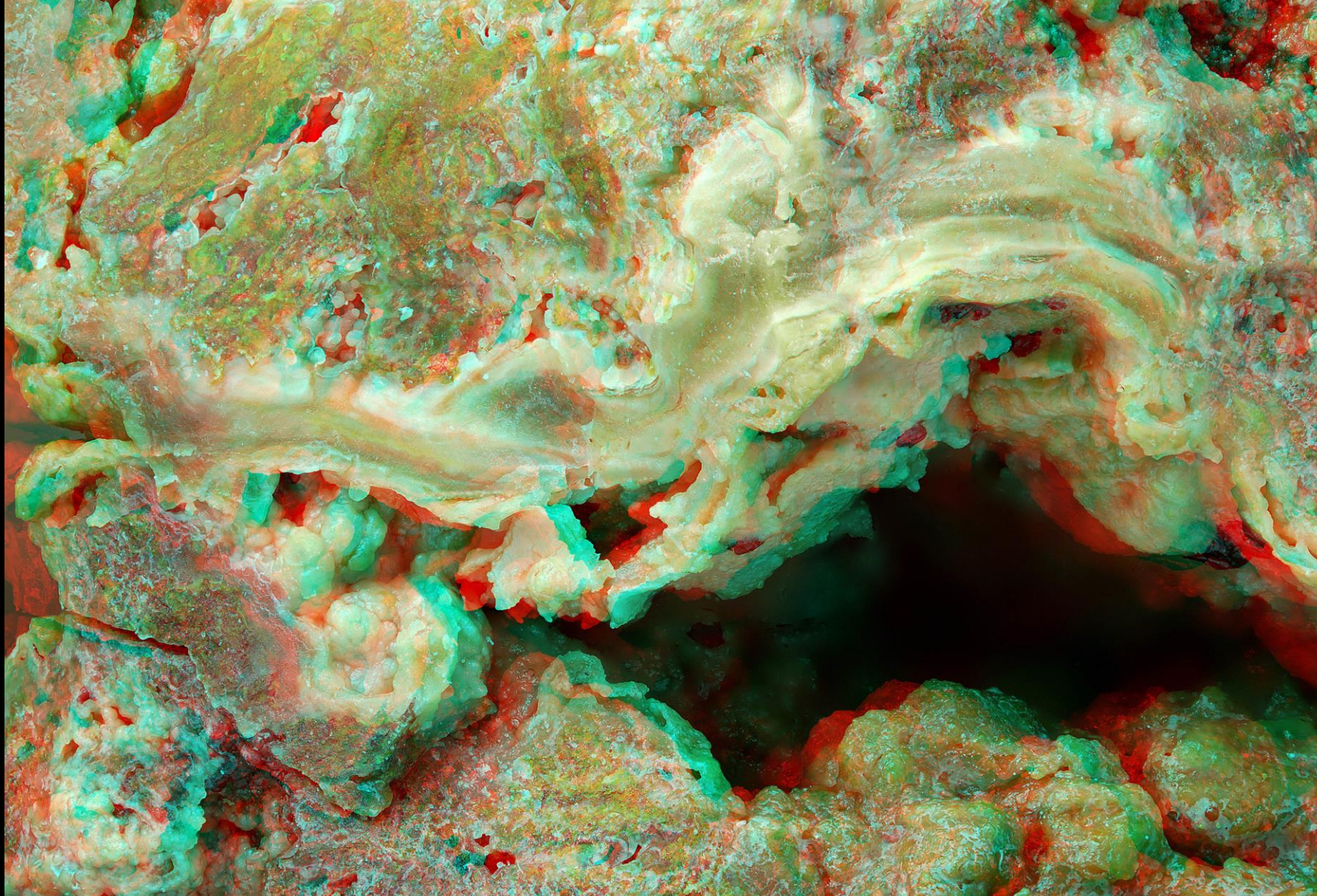
Forming a covering, with possible syneresis structures, over baryte and limonitic material.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Carl Zeiss (West Germany) Luminar 63 mm objective lens on 90 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 124 and 106 70-micrometre steps at 6 degrees via Stackshot rail, with Luminar at aperture 2, combined in CombineZM.



1 mm

Fraipontite $(\text{Zn,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$

Field width 11.9 mm.

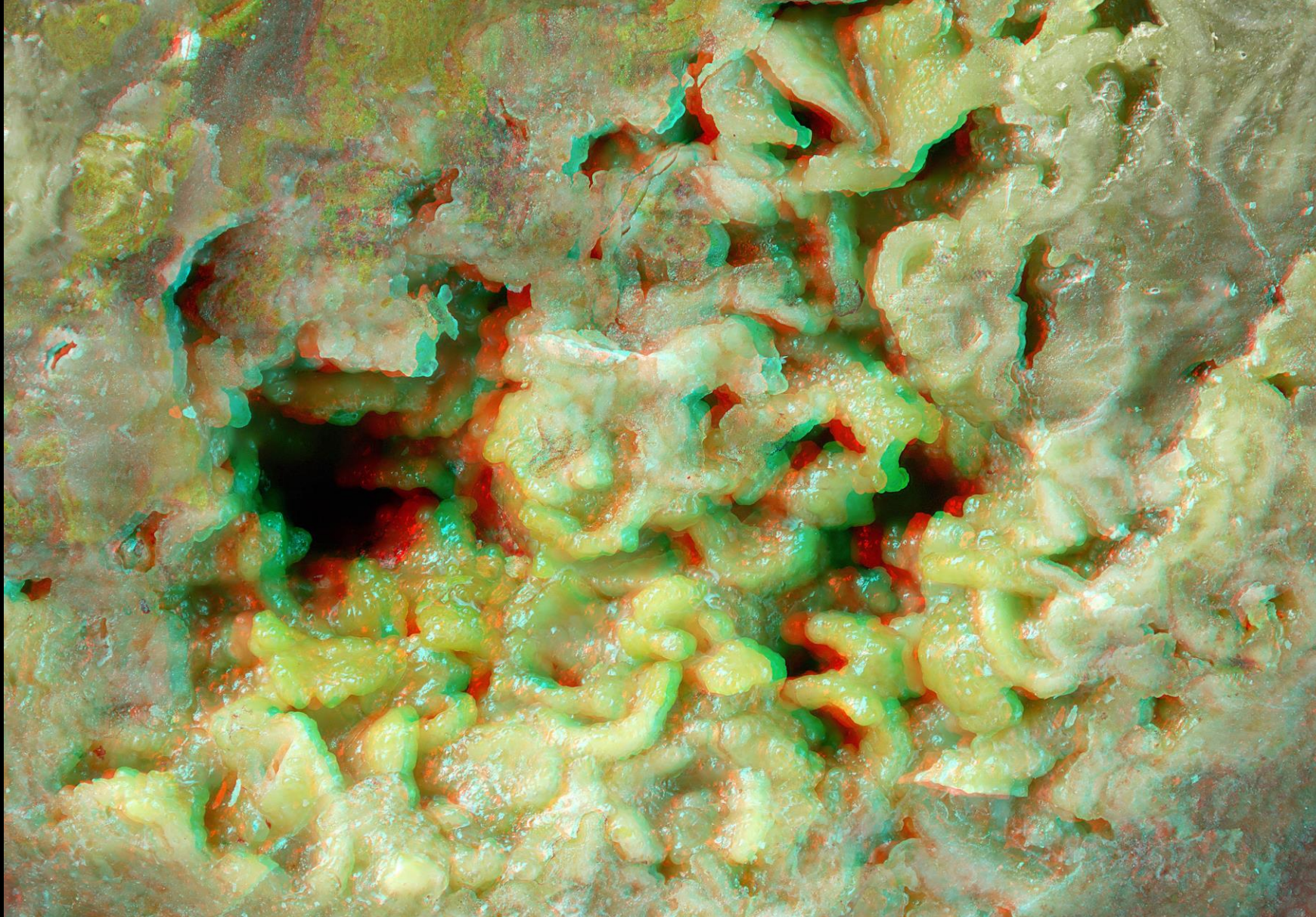
Fracture surface showing banded layering and botryoidal formations on baryte-goethite matrix.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Carl Zeiss (West Germany) Luminar 63 mm objective lens on 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 96 60- and 109 50-micrometre steps at 6 degrees via Stackshot rail, with Luminar at aperture 1.5, combined in CombineZM.



1 mm

Fraipontite $(\text{Zn},\text{Al})_3(\text{Si},\text{Al})_2\text{O}_5(\text{OH})_4$

Field width 6.48 mm.

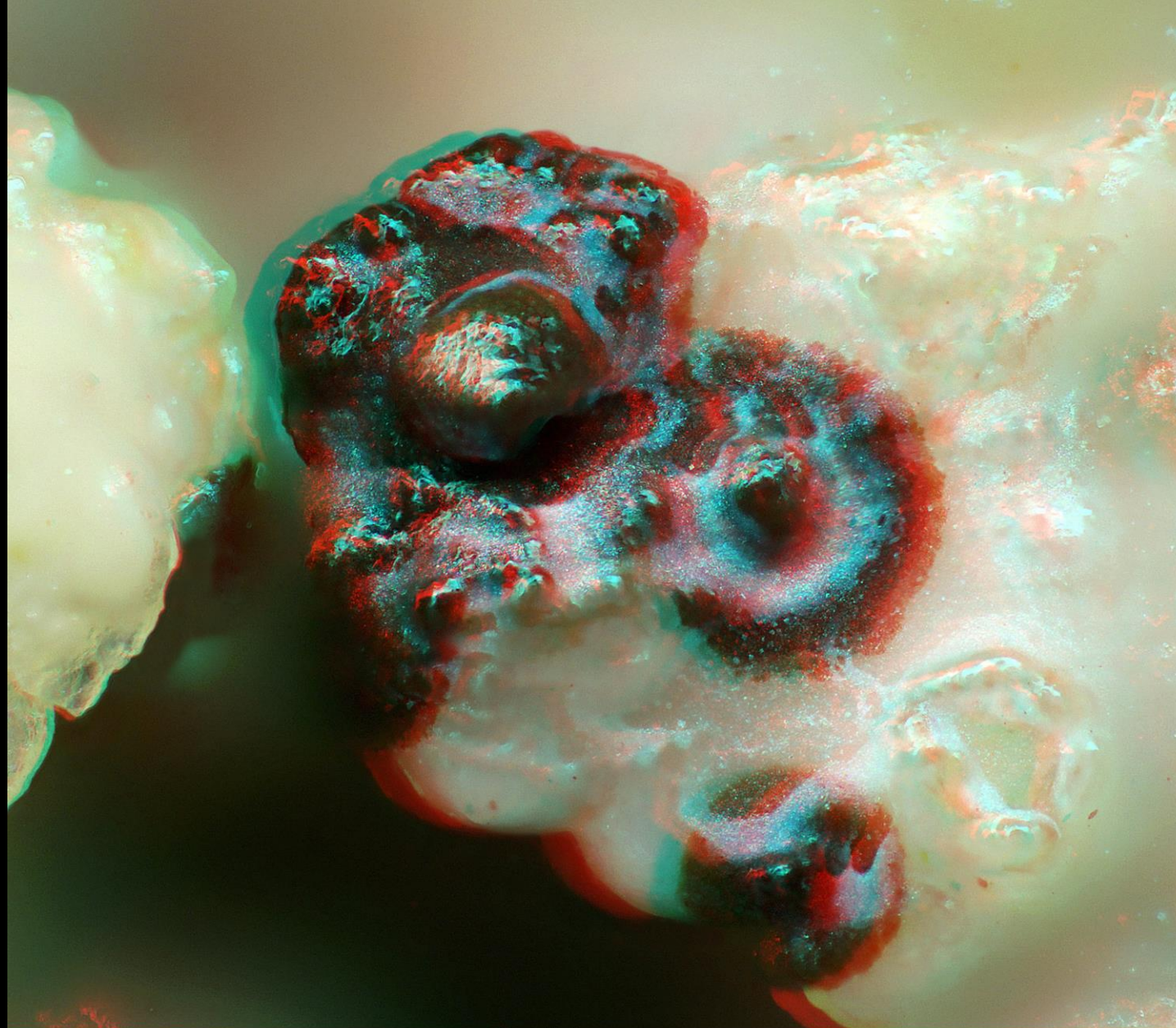
Somewhat serpentiform, pale yellow-stained, with thin translucent sodium-rich coating, in cavity in baryte-goethite matrix.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Carl Zeiss (West Germany) Luminar 40 mm objective lens on 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 91 and 82 30-micrometre steps at 6 degrees via Stackshot rail, with Luminar at fully open aperture, combined in CombineZM.



0.1 mm

Goethite $\text{FeO}(\text{OH})$

Field width 0.665 mm

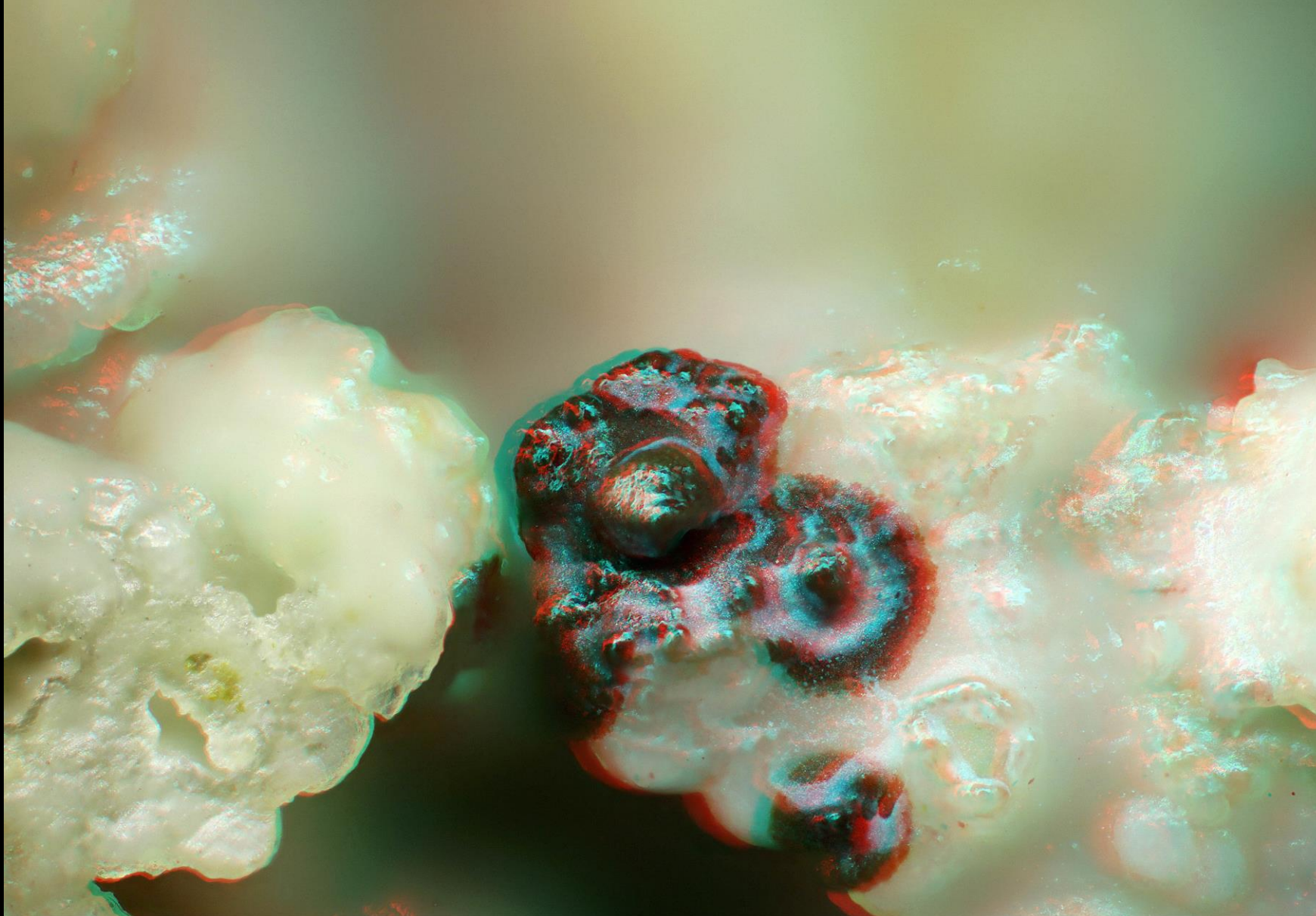
Annular and umbonate formations on fraipontite, coated over with a thin translucent layer of sodium-rich fraipontite.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Leica 140x/0.40 objective lens and 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 81 and 68 4-micrometre steps at 6 degrees via Stackshot rail, combined in CombineZM and rendered in Stereophotomaker.



0.1 mm

Goethite FeO(OH)

Field width 1.17 mm.

Annular and umbonate formations on fraipontite, coated over with a thin translucent layer of sodium-rich fraipontite.

Virgin Moss Mine dumps SD 9973 9454 (1.5 km SE of Whitaside Moor), Wensleydale, North Yorkshire.

Specimen: found by David Green and in David Green collection. Photography: John Chapman.

Canon EOS 5DSr camera with Leica 140x/0.40 objective lens and 175 mm bellows extension, with Schott fibre optic illumination.

Left + right stacks of 81 and 68 4-micrometre steps at 6 degrees via Stackshot rail, combined in CombineZM and rendered in Stereophotomaker.