D. DURICRUSTS

Field Note D5e. Manganese in ferruginised shales

Manganese veins in ferruginised shales.

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Manganese veins are common in ferruginised shales (Figures 1 to 4).

Figure 1. Top and bottom – tiny (<1 mm) manganese veins in shales. Box in top photo is enlarged in bottom photo.

Figure 2. Top and bottom – thick (top - 10 mm; bottom - 20 mm) manganese veins in shales.

Figure 3. Top and bottom - manganese veins in ferruginised shales.

Figure 4. Top and bottom - manganese veins at the base of an eroded ferruginised shale outcrop.

Traces of other minerals are found in the ferruginised shales (Figures 5 to

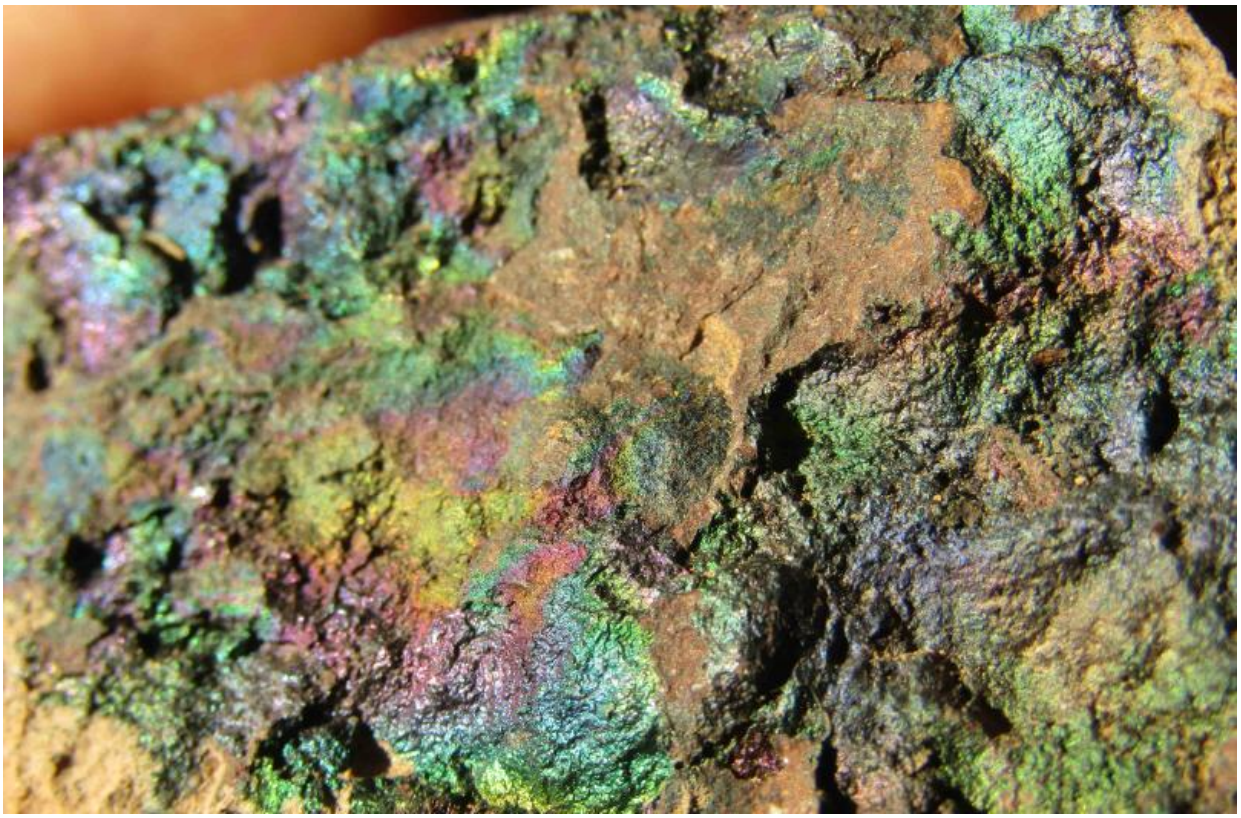

Figure 5. Top and bottom – traces of other minerals in the ferruginated shales.

Figure 12. Top and bottom (enlargement of box): iron-oxide minerals in a highly ferruginised hillslope shale outcrop (Rooikop).

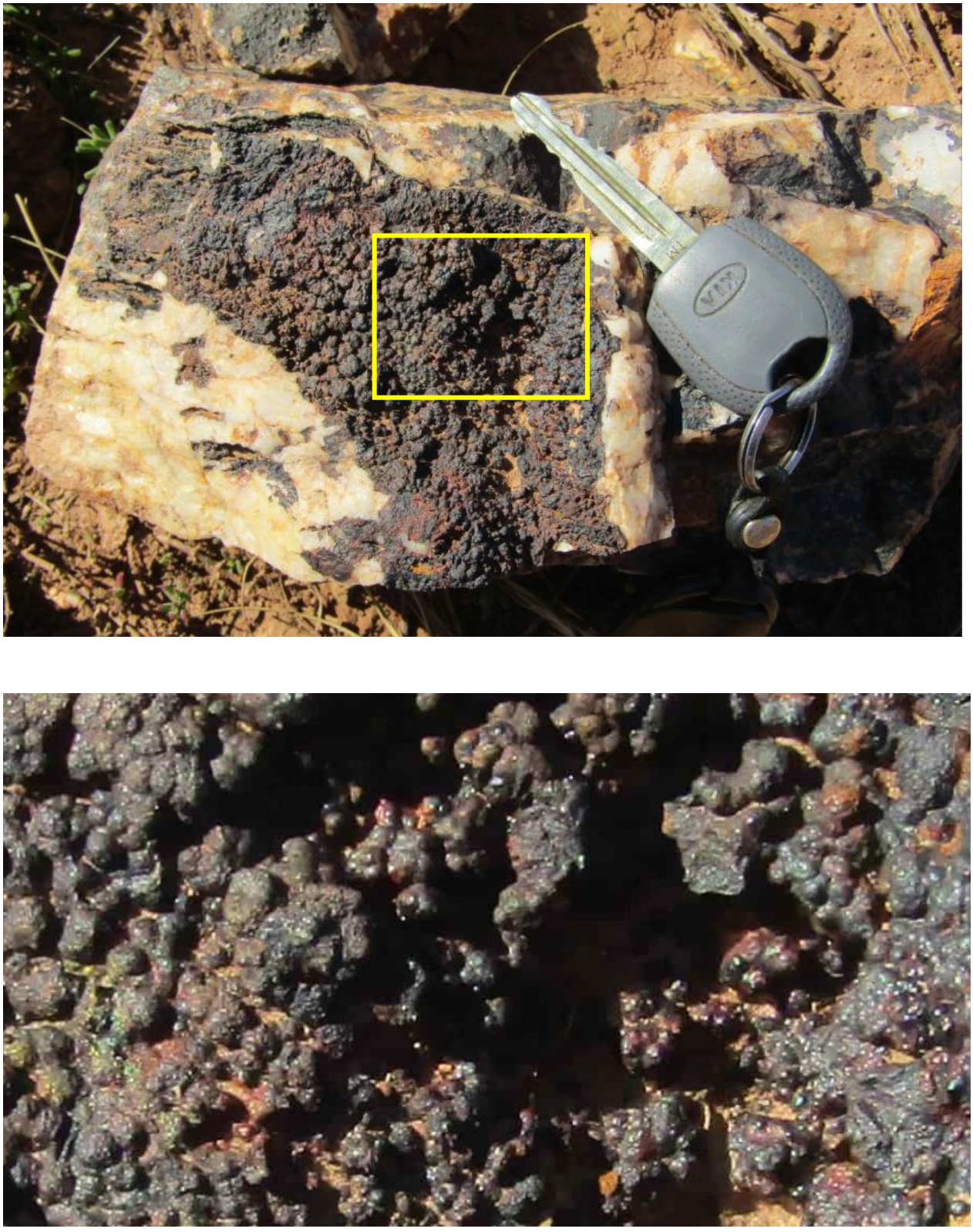

Figure 6. Top and bottom – botryoidal crystallisation (on Vinkelkop). Box in top photo enlarged in bottom photo (see botryoidal texture in Field Note on silcrete textures).

Figure 7. Top and bottom – cubic crystallisation of iron oxides (on Vinkelkop). Box in top photo enlarged in bottom photo.