

Dixie Mine near Vesuvius Rockbridge County, VA

Michael Pabst, Photographer

Specimens provided by Dean Hostetter, David Fryhauff, and Tom Tucker

Shenandoah Valley Gem and Mineral Society

October 12, 2015

An Iron and Manganese Phosphate Mine

- Located near the town of Vesuvius, VA.
- Ore body 4 to 25 feet thick for 1200 feet, up to 175 feet depth

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Menu

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Vesuvius, VA to Nar...html Mindat Dixie Cacoxe...jpg Show all downloads...

Mindat Mineral List for Dixie Mine

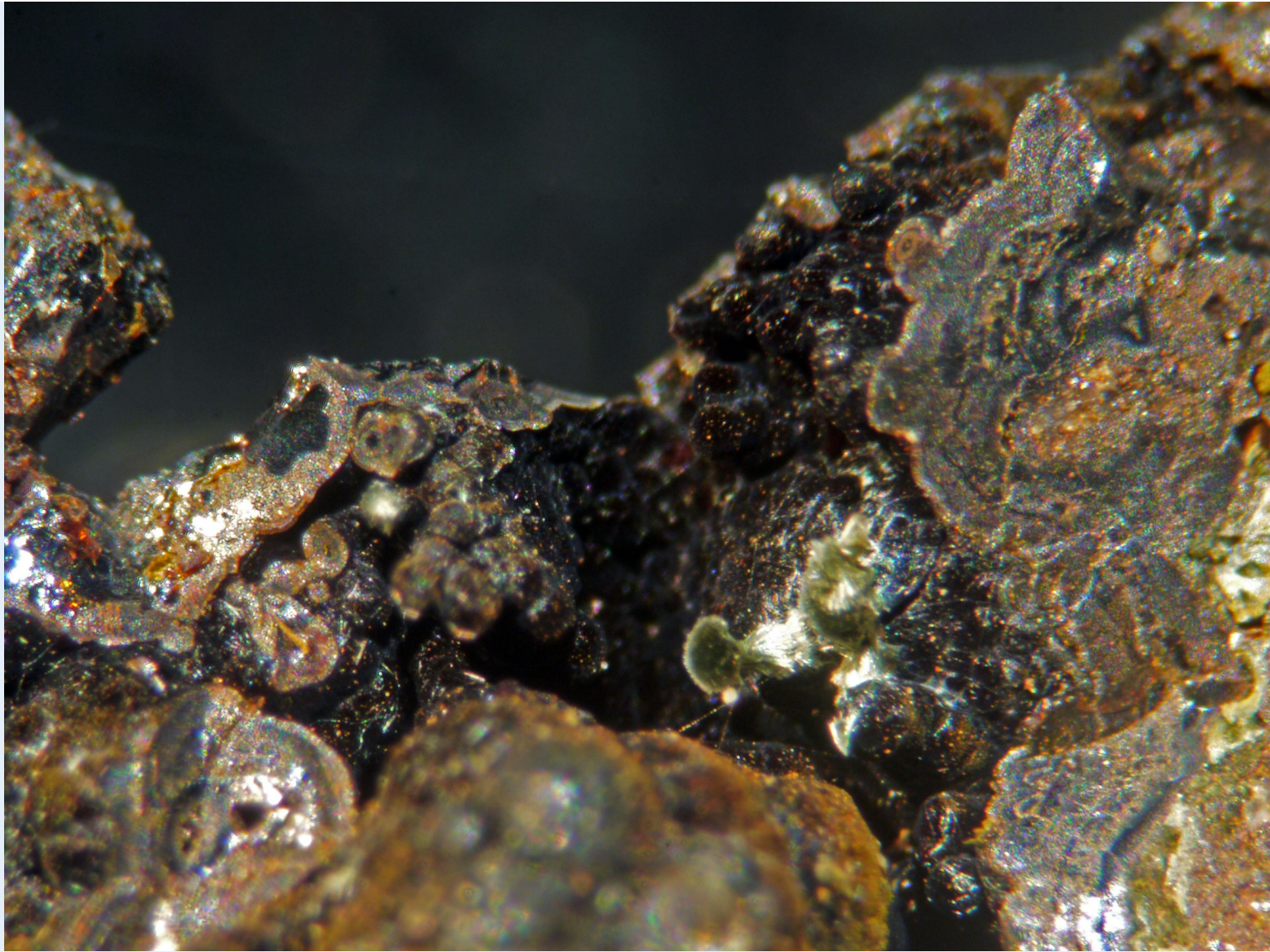
- Cacoxenite $\text{Fe}_{24}\text{Al}(\text{PO}_4)_{17}\text{O}_6(\text{OH})_{12}\cdot 17\text{H}_2\text{O}$
- Dufrenite $\text{Ca}_{0.5}\text{Fe}^{2+}\text{Fe}^{3+}_5(\text{PO}_4)_4(\text{OH})_6\cdot 2\text{H}_2\text{O}$
- Natrodufrenite $\text{NaFe}^{2+}\text{Fe}^{3+}_5(\text{PO}_4)_4(\text{OH})_6\cdot 2\text{H}_2\text{O}$ – New, not reported
- Goethite $\alpha\text{-Fe}^{3+}\text{O}(\text{OH})$
- Kidwellite $\text{NaFe}^{3+}(\text{PO}_4)_6(\text{OH})_{11}\cdot 3\text{H}_2\text{O}$
- Manganite $\text{Mn}^{3+}\text{O}(\text{OH})$
- Rockbridgeite $\text{Fe}^{2+}\text{Fe}^{3+}_4(\text{PO}_4)_3(\text{OH})_5$
- Strengite $\text{FePO}_4\cdot 2\text{H}_2\text{O}$

Only 2 Photos on Mindat

- Cacoxenite
- Rockbridgeite



Dufrénite (green)
on
Rockbridgeite (black)

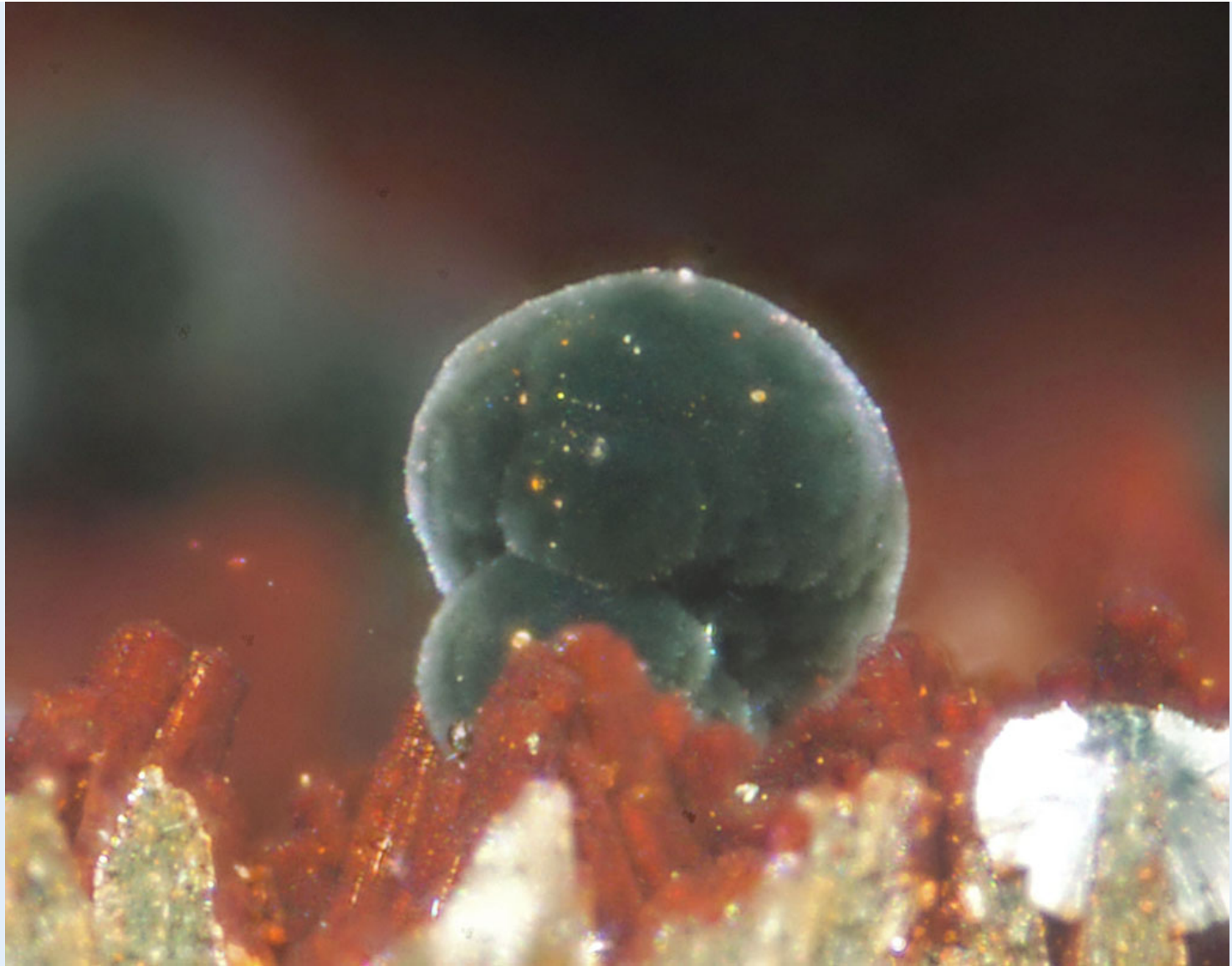




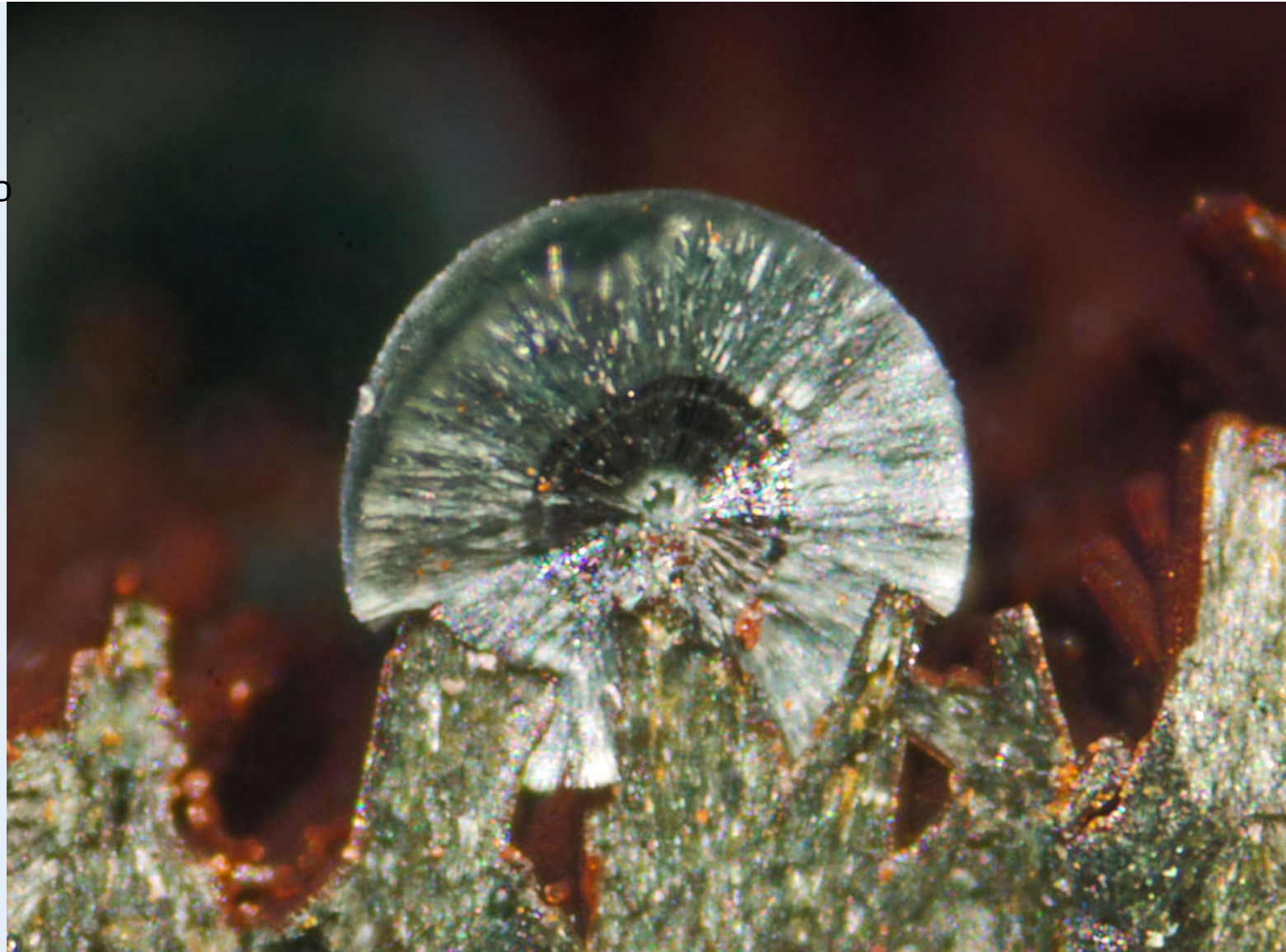
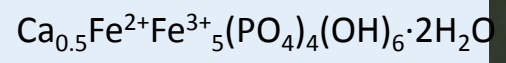




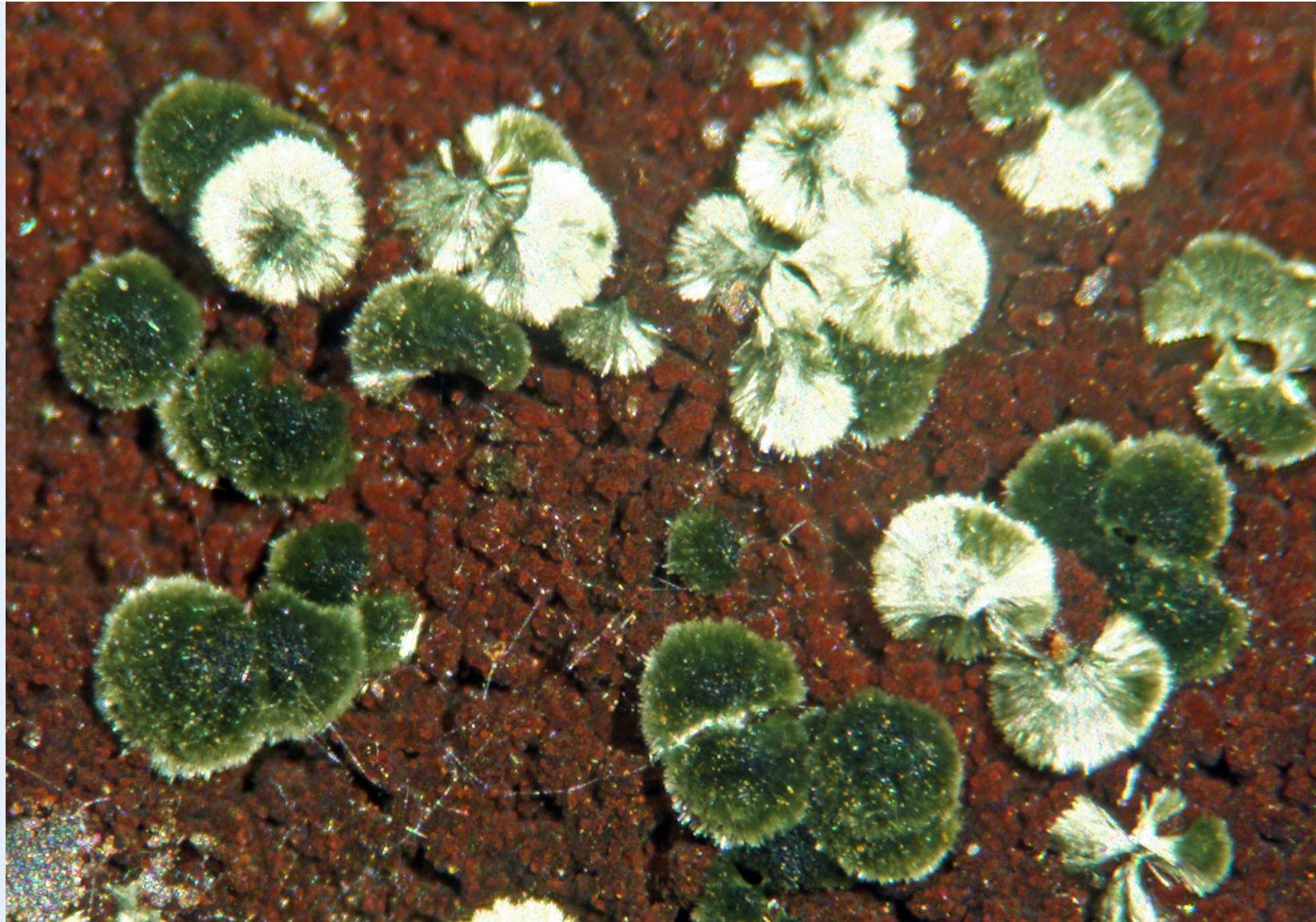




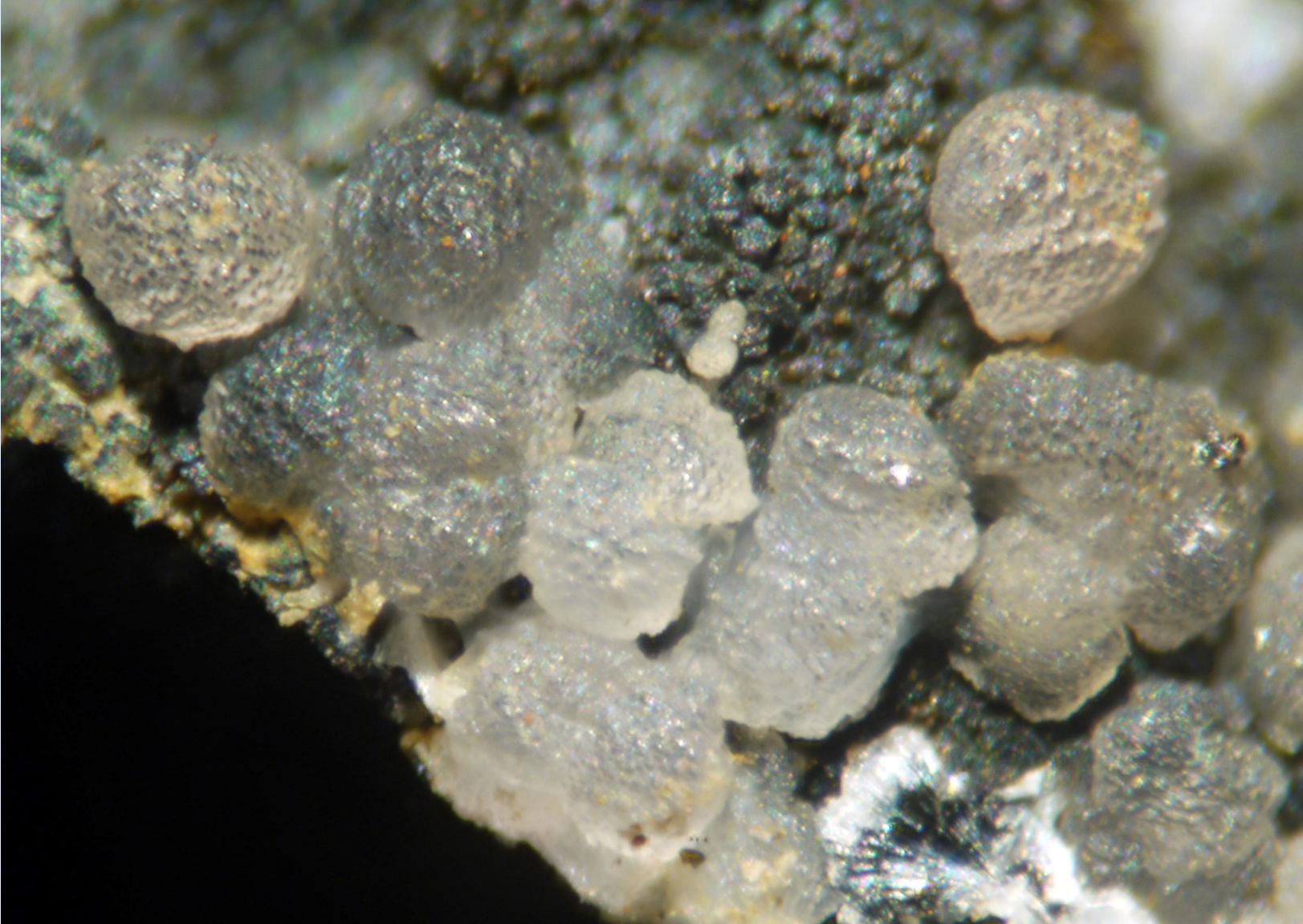
Dufrénite



Kidwellite
on
Beraunite



Strengite?



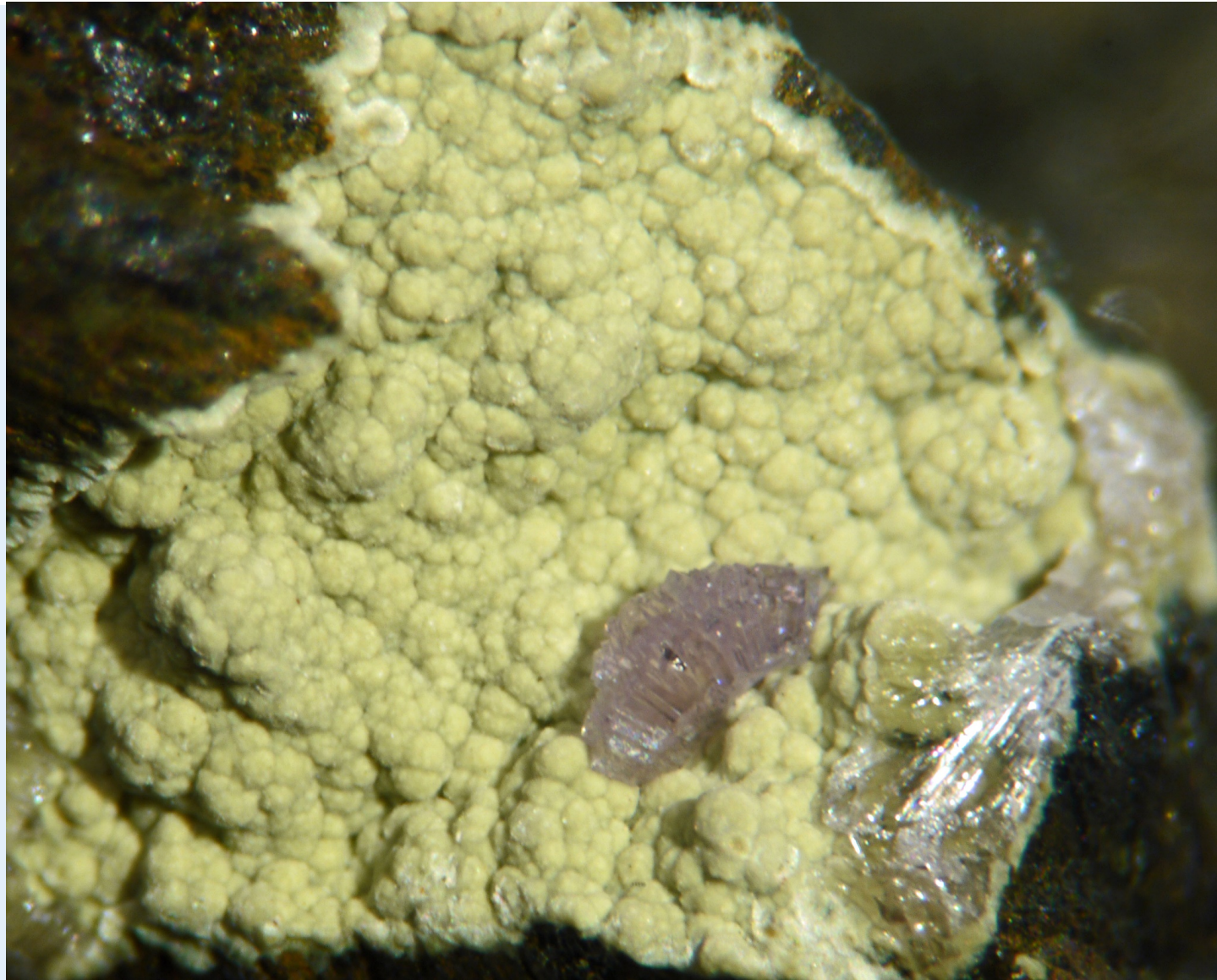


Strengite

Indian Mountain
Alabama

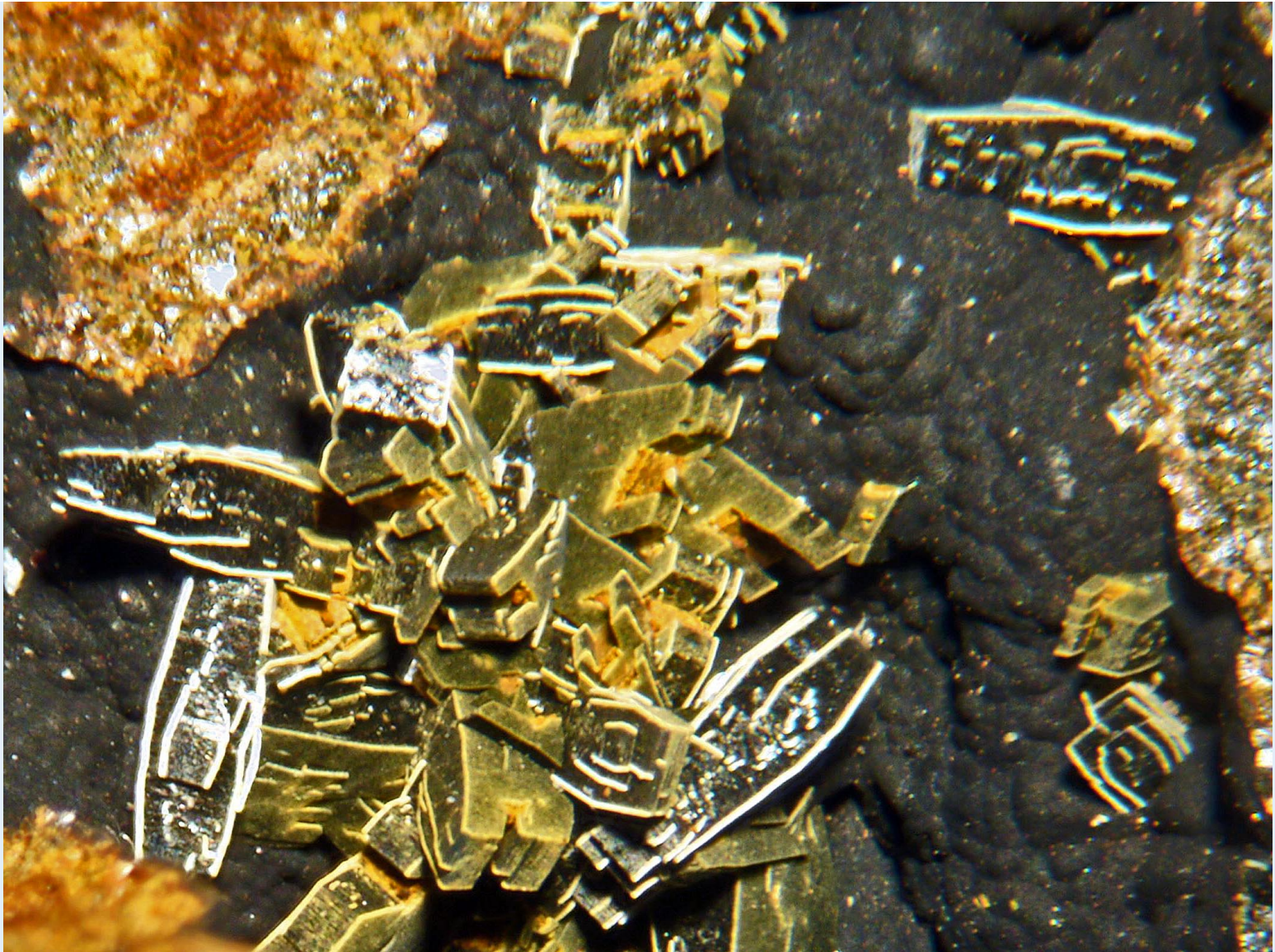


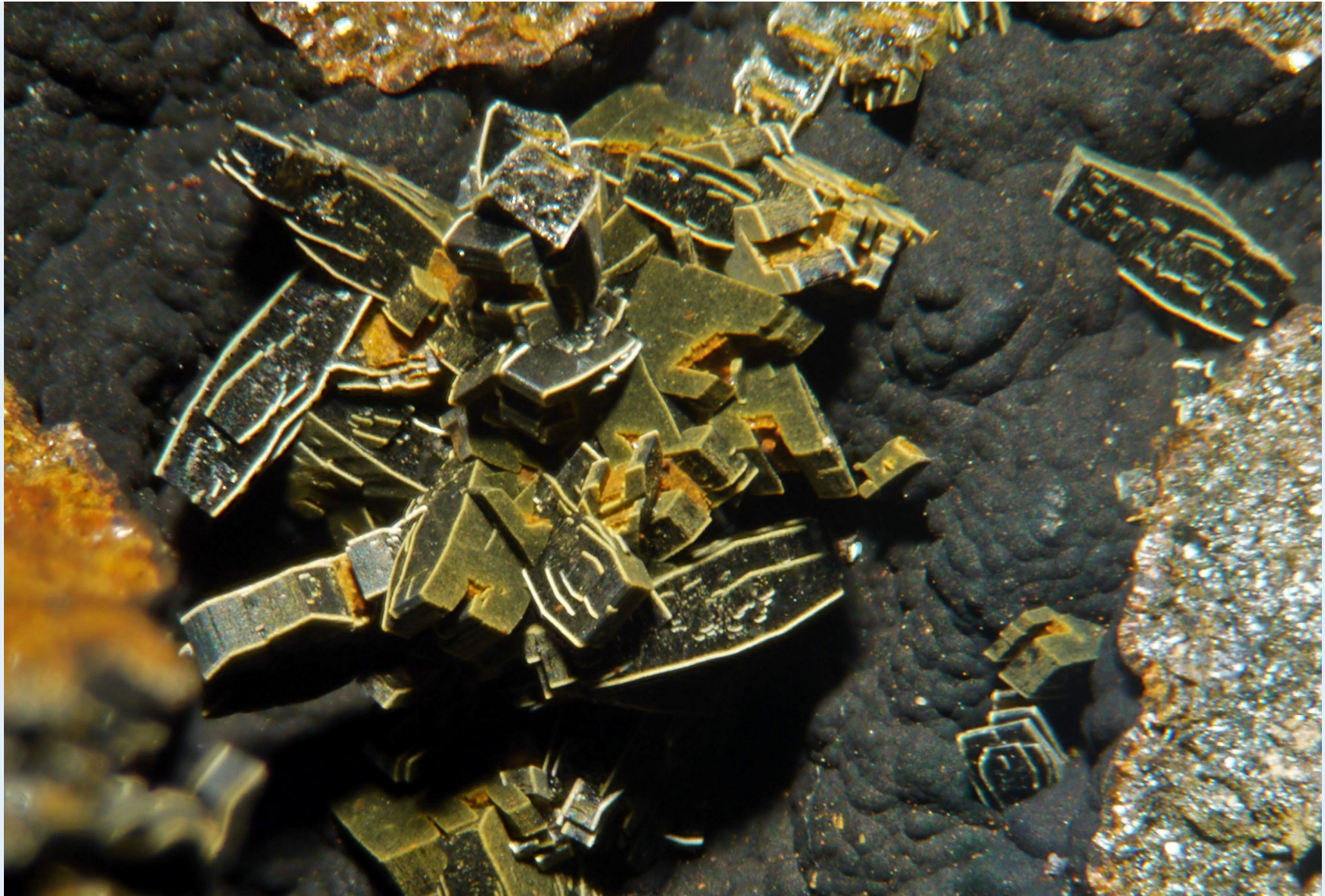
Strengite
on
Kidwellite



Strengite
on
Kidwellite

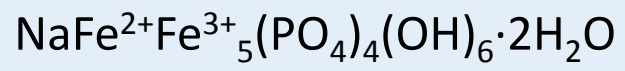








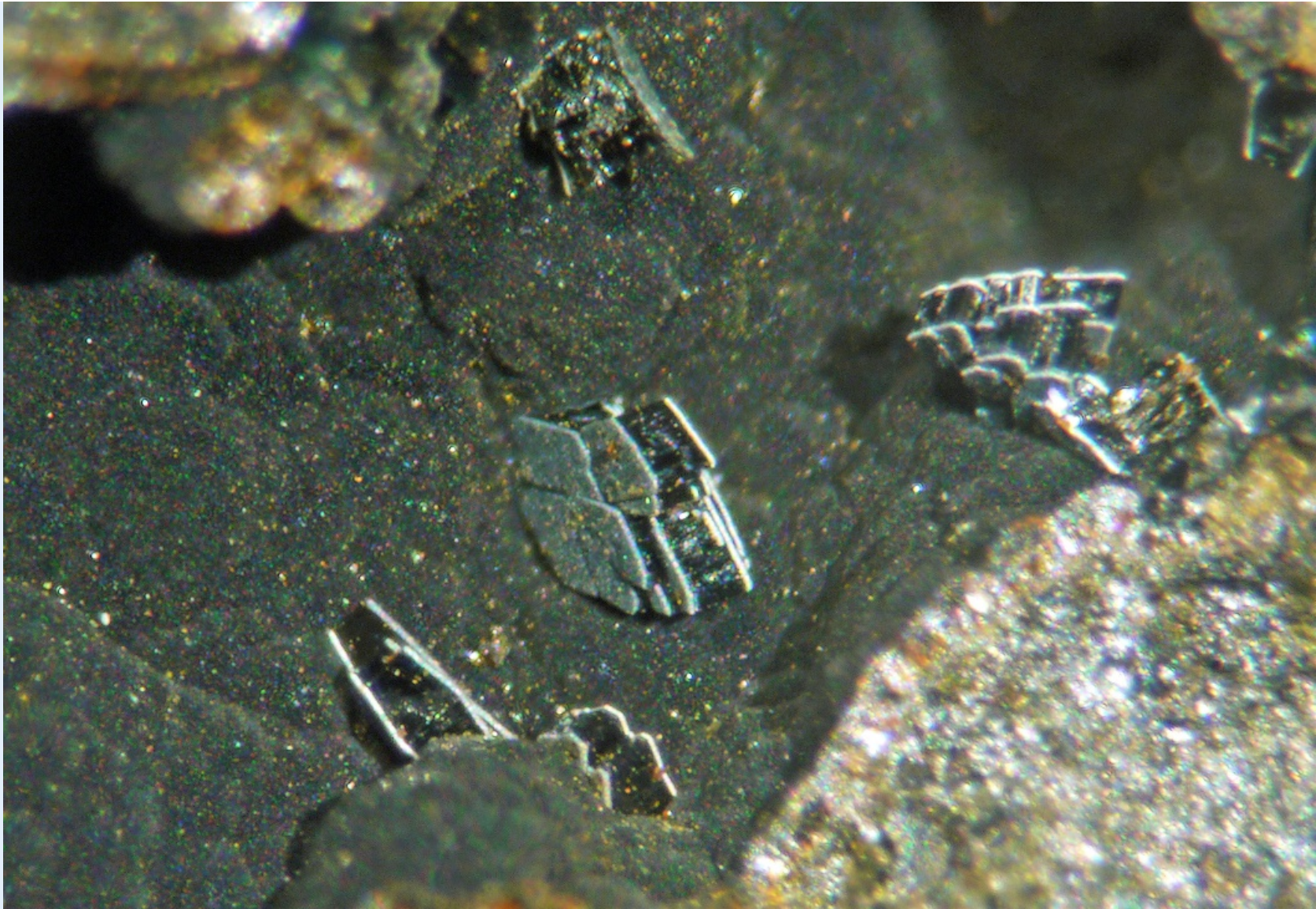
Natrodufrénite



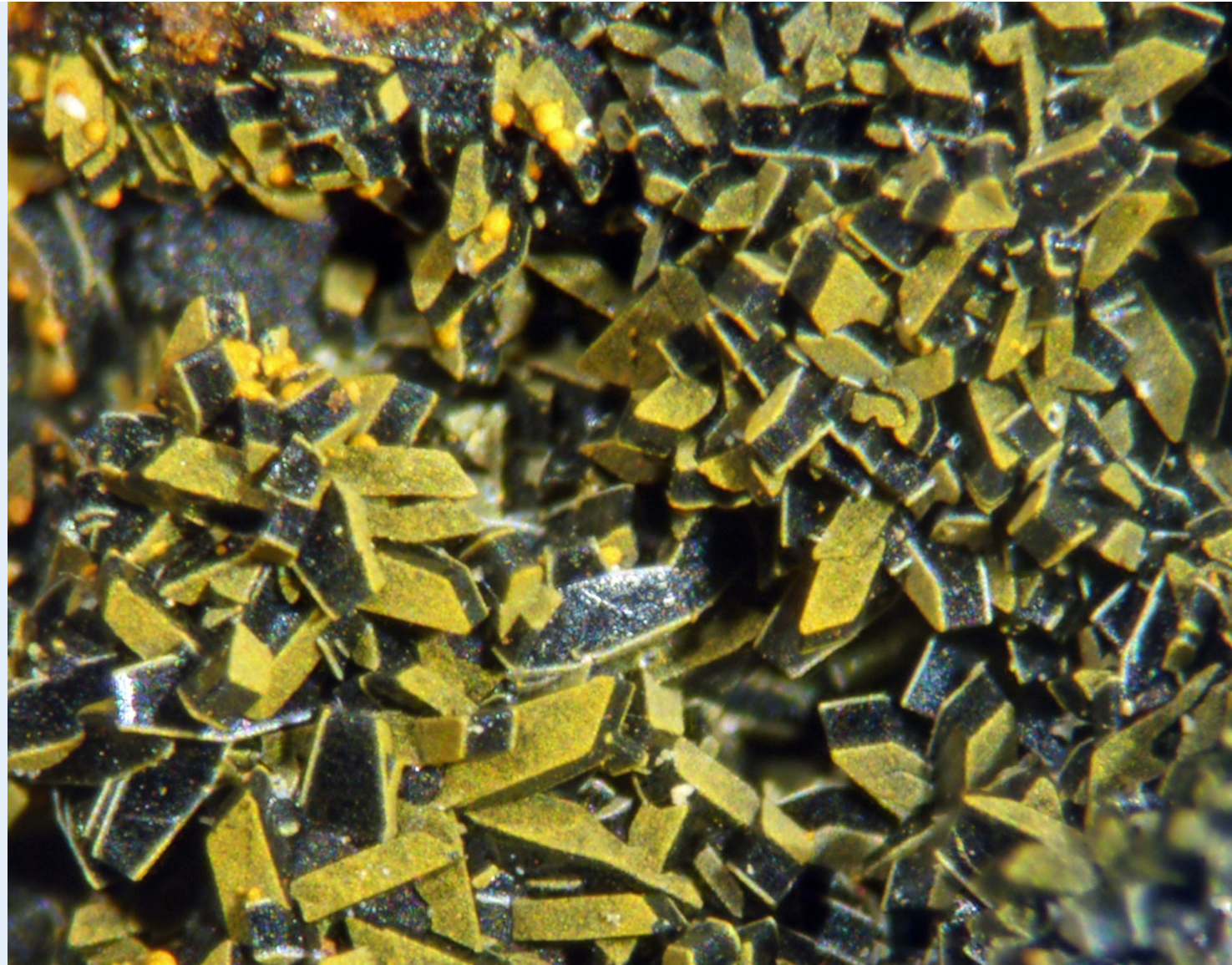
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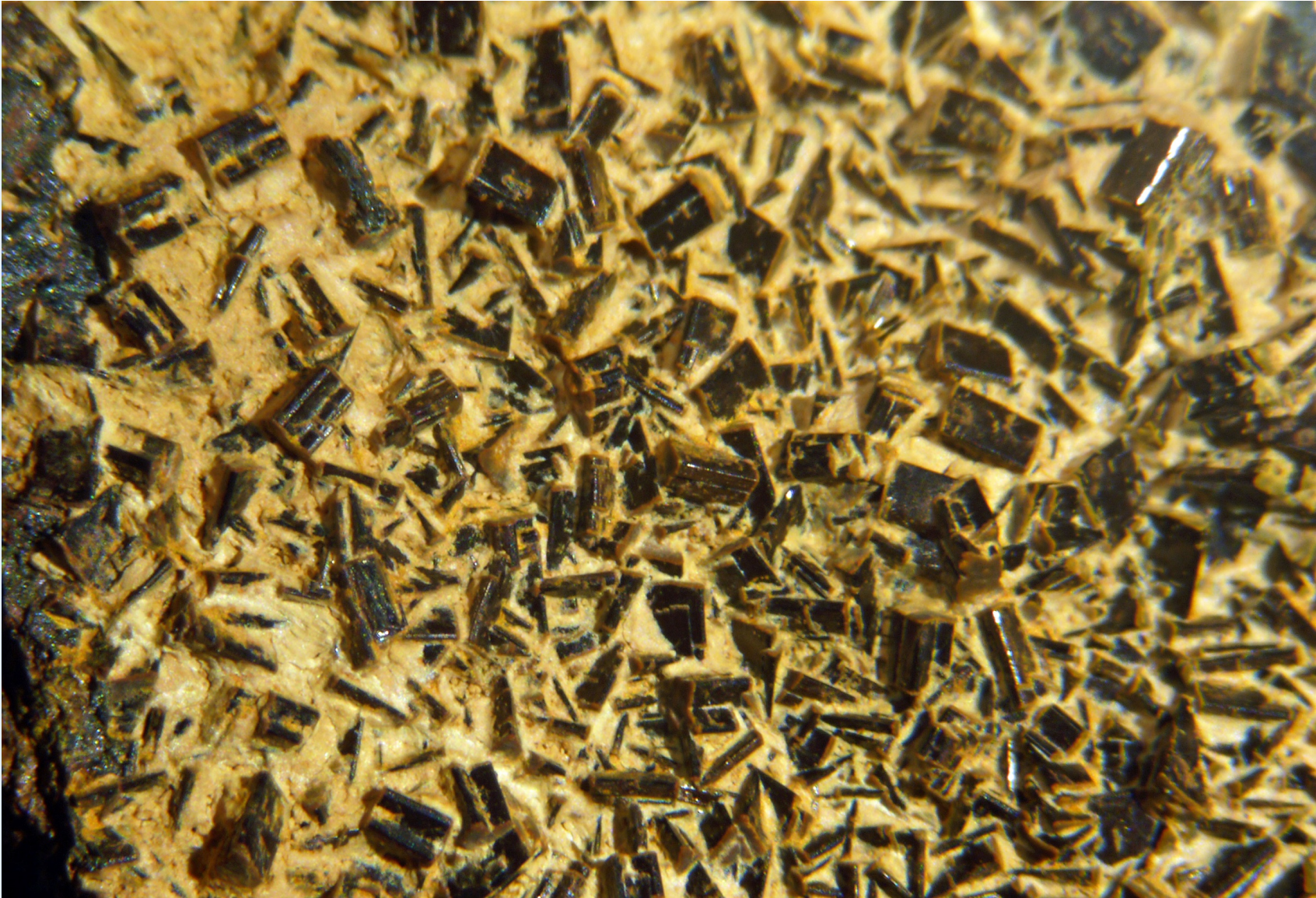
Natrodufrénite



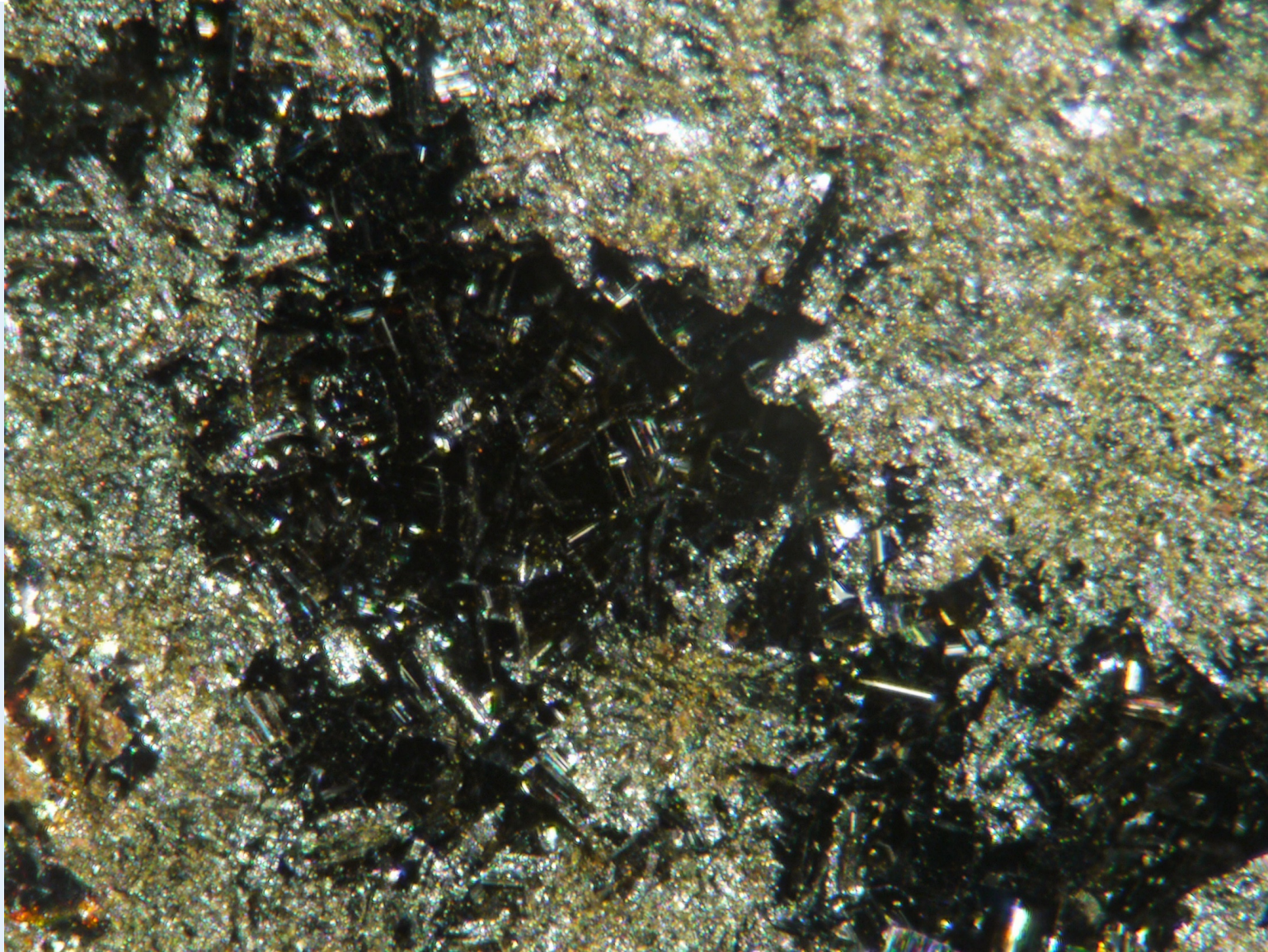
Cacoxenite
on
Natrodufrénite



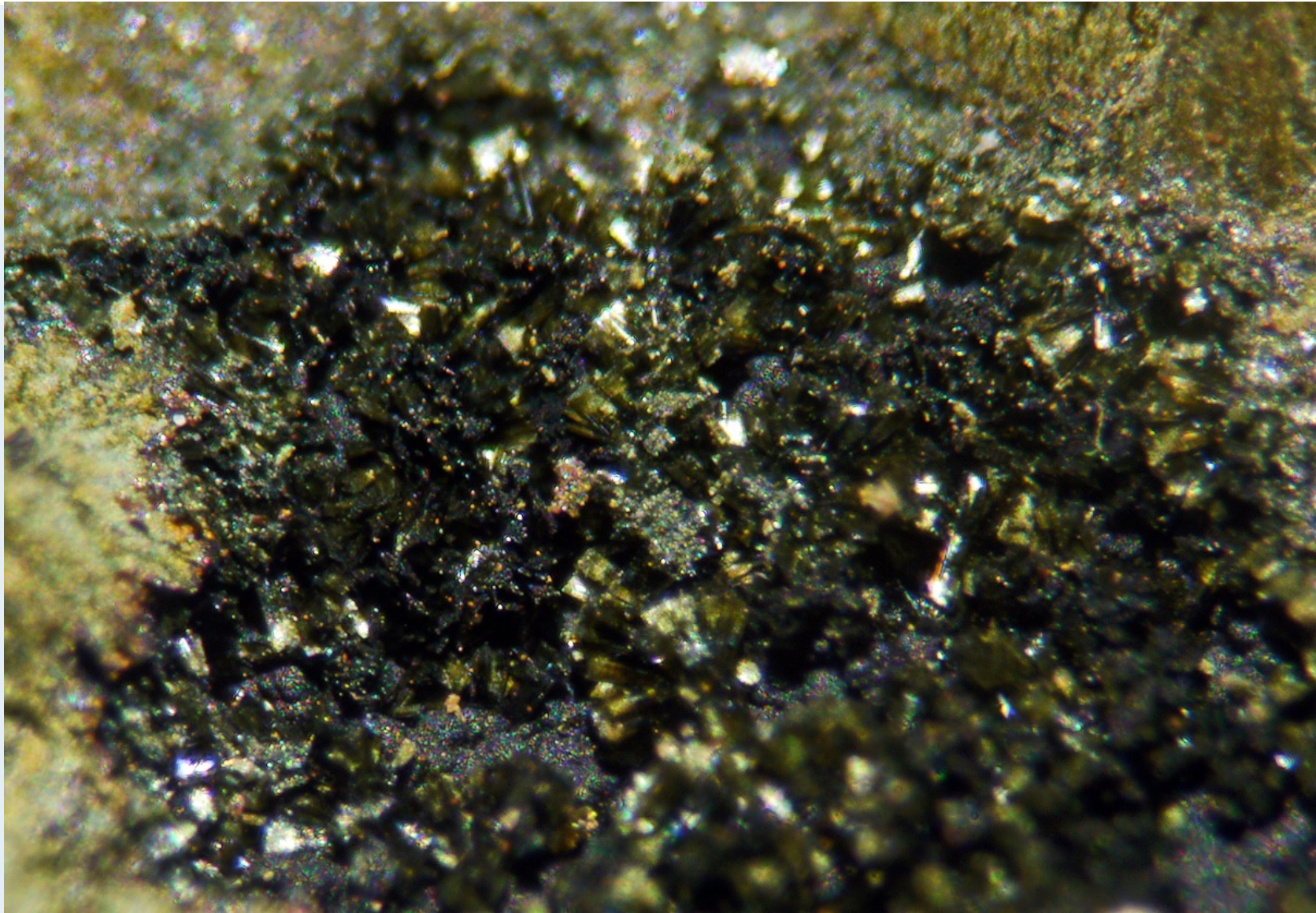
?



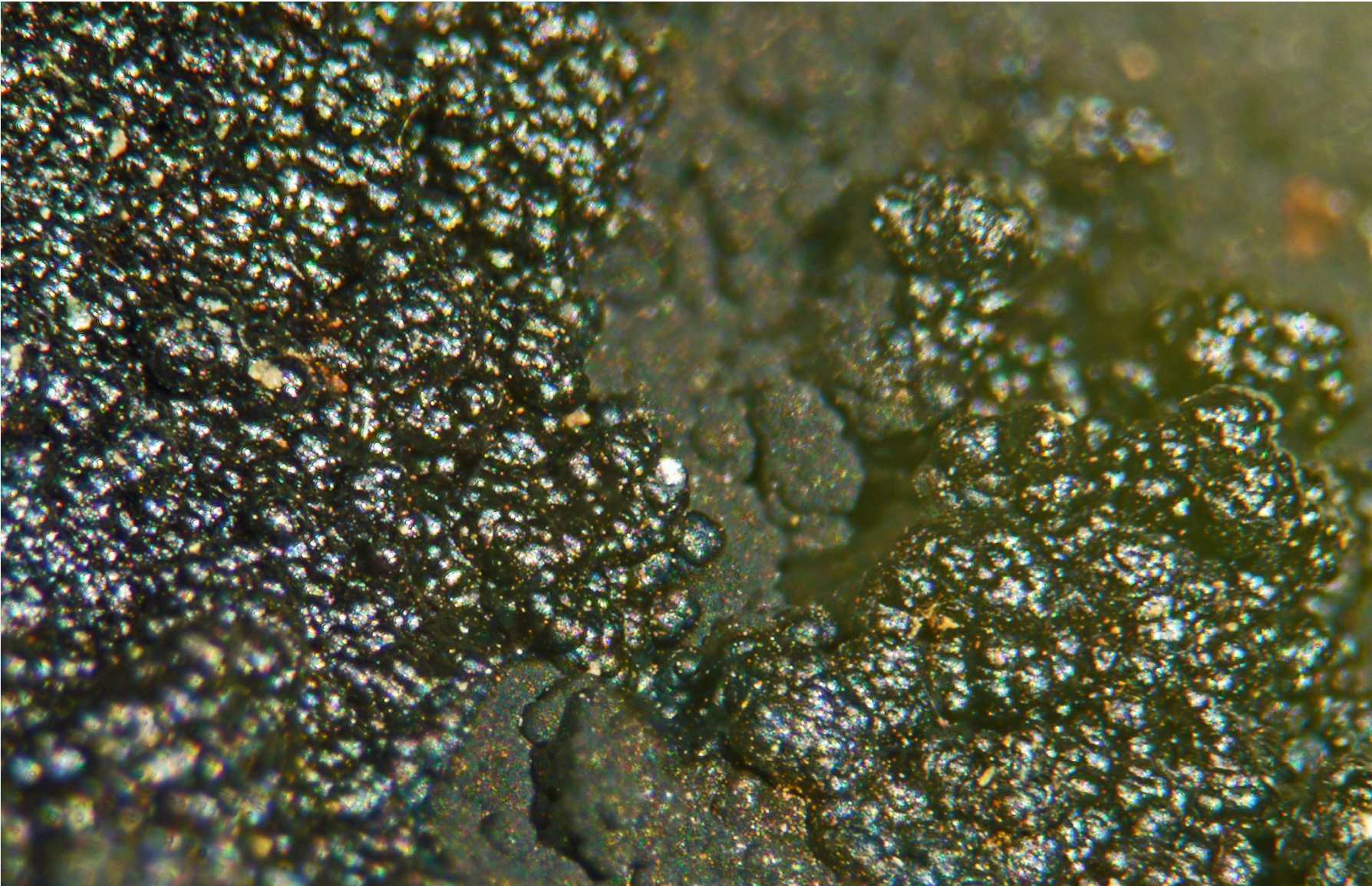
Rockbridgeite



Rockbridgeite
crystals



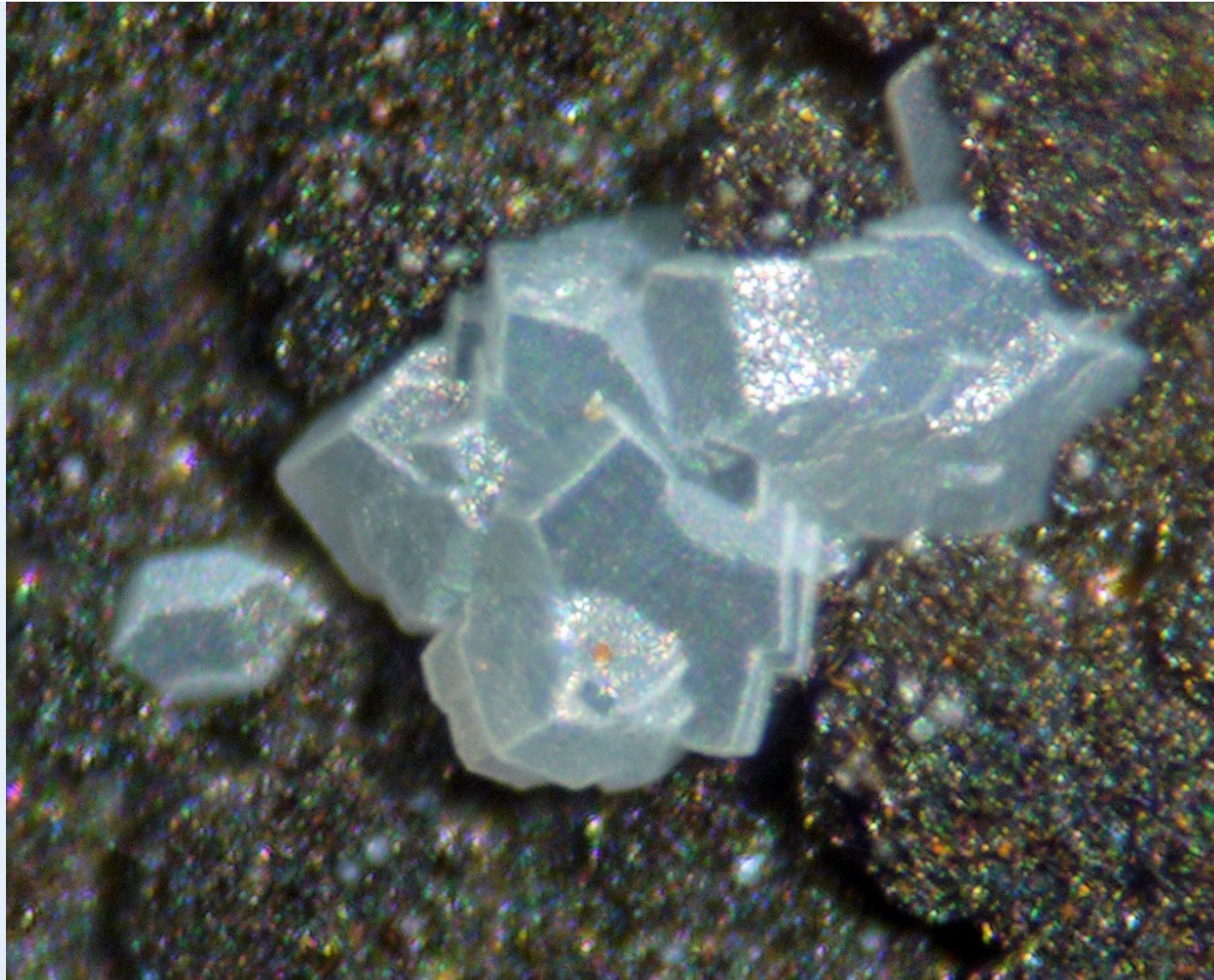
Goethite



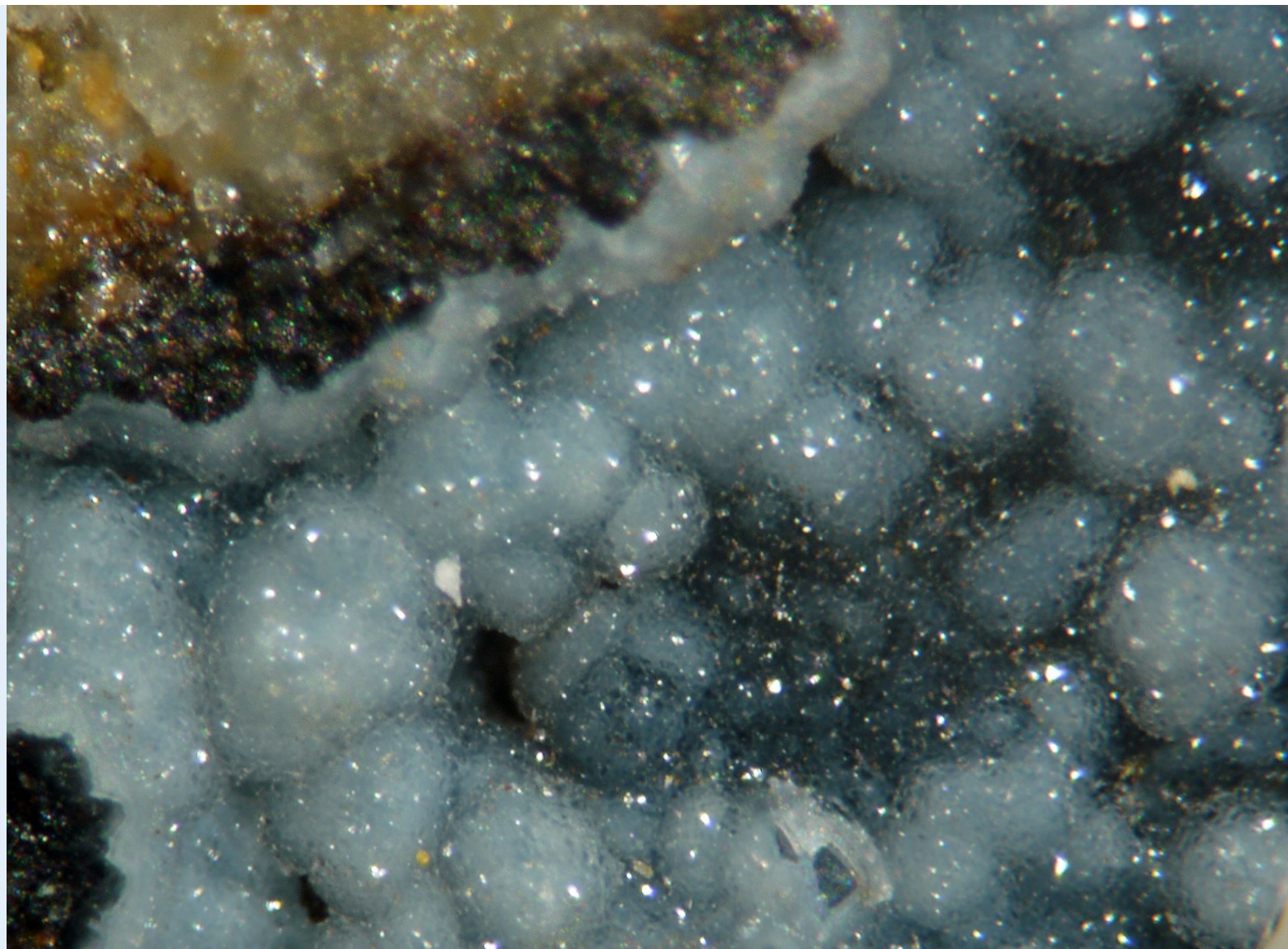
Quartz?



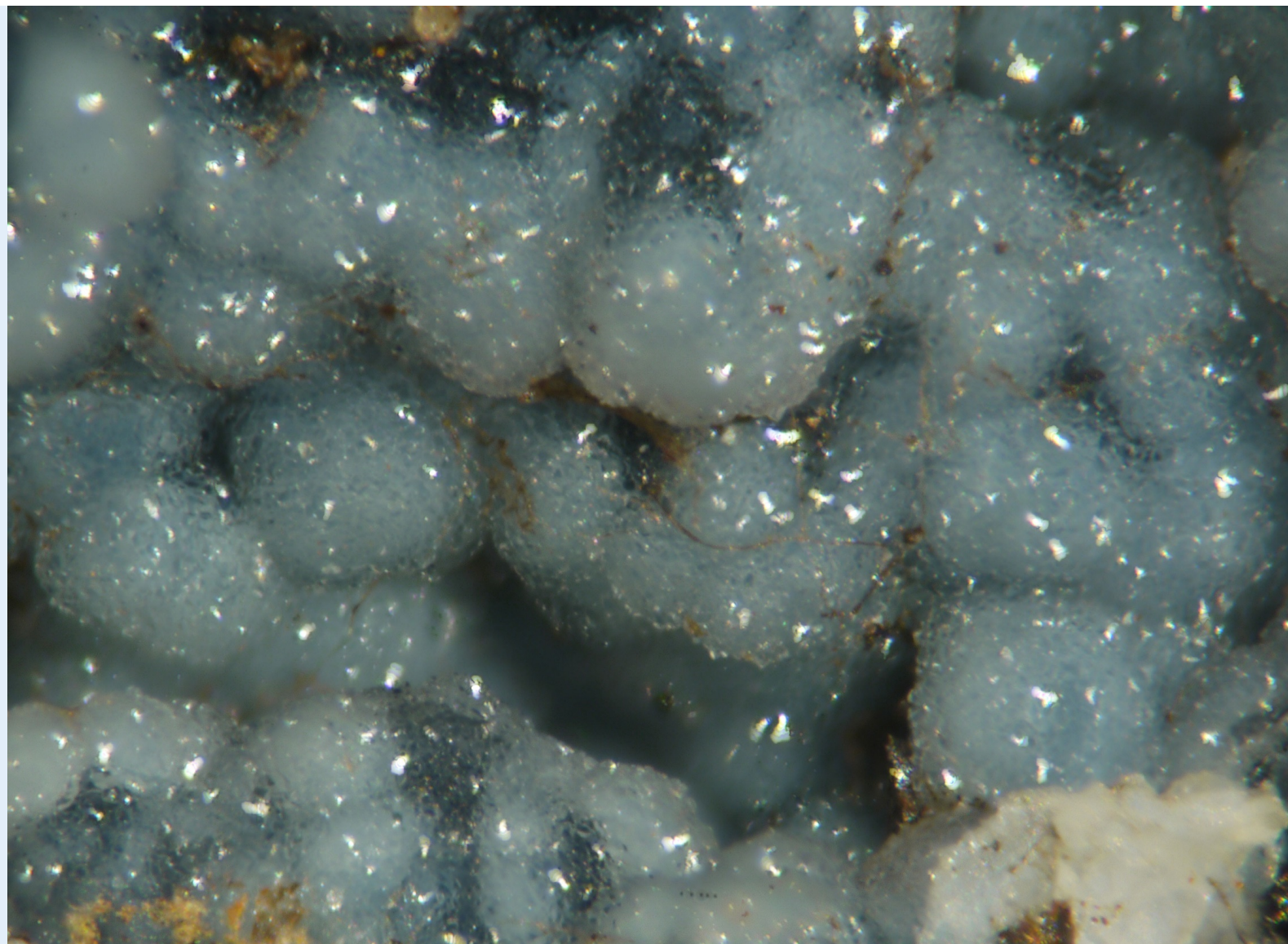
Quartz?



Drusy Quartz



Drusy Quartz



**Bel Air Mine, La Chapelle Largeau,
Deux-Sèvres, Poitou-Charentes,
France**

33 mineral species & varietal names listed,

**Including many Uranium minerals: Studtite,
Torbernite, Autunite, Phosphuranylite,
Rutherfordine, Uranophane**

www.mineralienatlas.de

Dufrénite

Bel Air Mine
France

From
Mineralienatlas.de

Photo by
Jean-Marc Johannet



Dufrénite

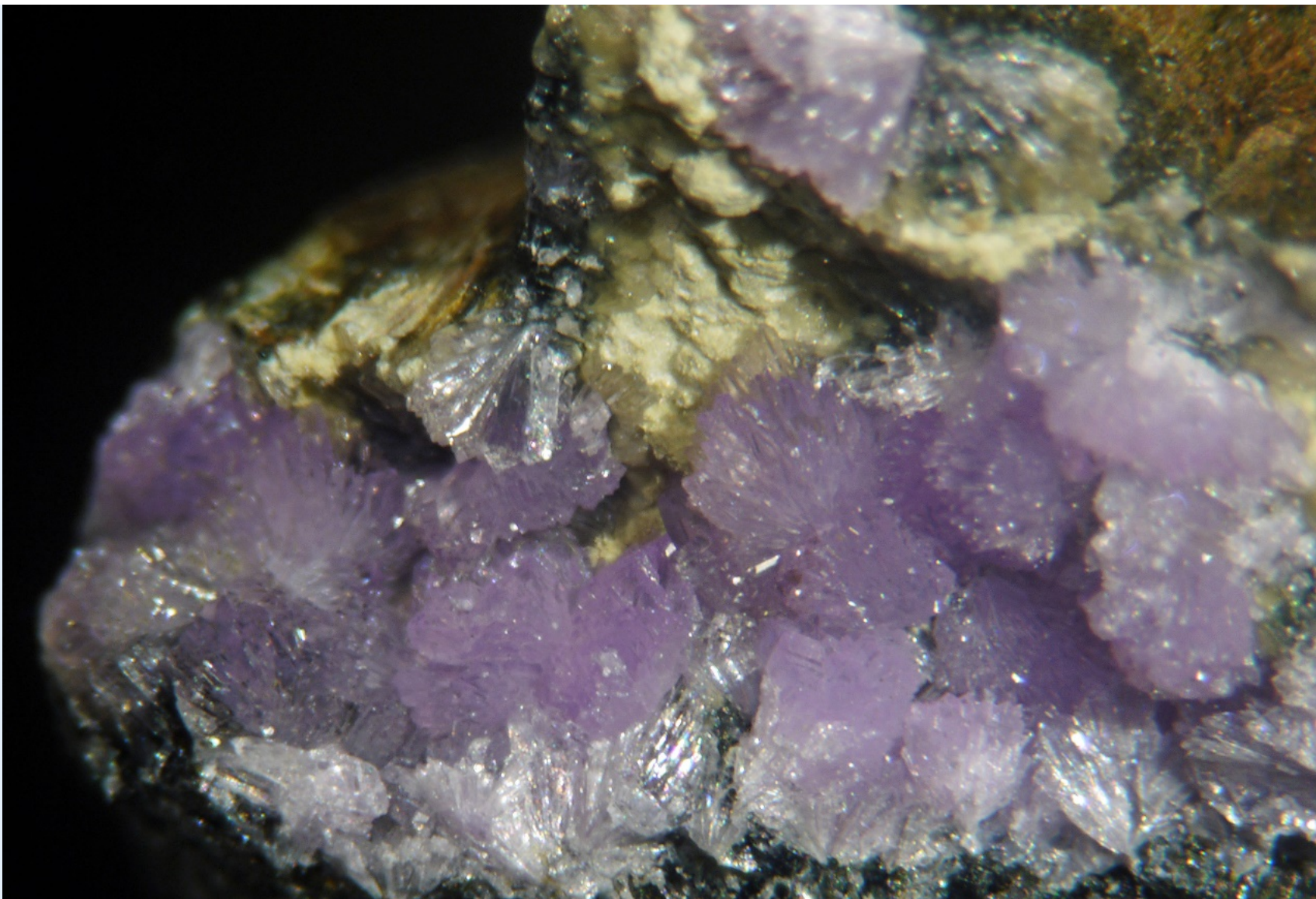
Bel Air Mine
France

From
Mineralienatlas.de

Photo by
Jean-Marc Johannet



The Great
Strengite



Goals for Future Field Trip

- Have a nice hike in the woods
 - Bears?
 - Picnic?
- Add some minerals to our collections
- Look for uranium minerals with Geiger Counter
- Improve Mindat coverage of the Dixie Mine