

Sample ID and provenance

Sample ID: SP23_BLN

Outcrop: Belixe norte

Lithology: Chert

Unit/facies: N/A

Collection: LusoLit

Thinsection: Yes

Macroscopic description

❖ COLOR

The color distribution is Mix diffuse. The colors are Very pale brown (10YR 7/3), Light gray (10YR 7/2) and Light brownish gray (10YR 6/2).

❖ FABRIC

The luster is Dull and the translucency is Opaque. The feel is Semi-smooth and the grain is Fine. The structure is Uneven with a Gradual variation. The patterns are Shaded and Spots (50-99%). The spots are Splotched, Spotted and Speckling with an Uneven distribution.

❖ INCLUSIONS AND FOSSIL CONTENT

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❖ CORTEX

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❖ QUALITY

The fracture is Conchoidal and the surface is Homogeneous. The knapping quality is good.

❖ OBSERVATION

The sample is altered due to the secondary deposition. The deposition of the chert is also dubious, due to the proximity to an archaeological site. The presence of a knapped flake of unknown chronology confirms the idea that BLN may not represent a usable secondary deposition setting for raw material studies.

Outcrop description

❖ OUTCROP CHARACTERISTICS

Type of outcrop: Secondary

Visibility: Good

Accessibility: Easy

State of site: -

❖ CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: -

Sample variability: Variable

Frequency: Abundant

Nodule description: -

❖ SHORT DESCRIPTION

Chert can be found in an agriculture field. No signs of parent rock can be found and some of the chert samples may be archaeological artifacts. The outcrop is close to an archaeological site, so the samples may be a mix of geological and archaeological cherts.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Packstone

Microstructure: Massive

❖ COMPOSITION

ORTHO-CHEM	Type	%	Description
MiC quartz (gr)	SE	95	-
Dolomite	SE	2	-
Chalcedony (fb)	SE	3	-
MG quartz (gr)	SE	1	-

ALLO-CHEM	Freq	Description
Oxides	Uncommon	-

BIOCLASTS	Freq	Description
Ghosts	Common	-
Sponge spicule	Common	-
Radiolarians	Common	-

Echinoid spines	Common	-
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❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 1

Porosity type: Vuggy

Other sedimentary structures: -

Observations

- ❖ Some spicules have a parallel or sub-parallel orientation.

Analysis information

- ❖ ANALYST: JB
- ❖ DATE: 24.02.2022
- ❖ EQUIPMENT: Leica DM2500 P

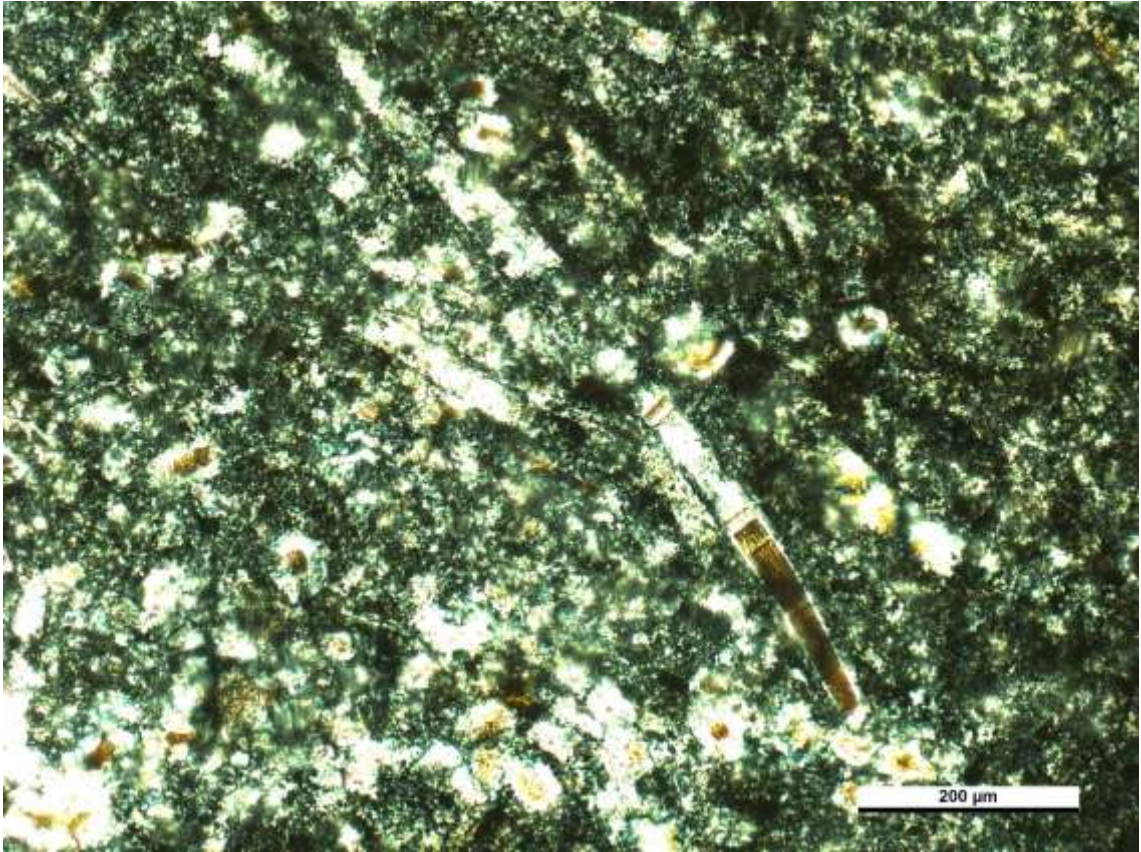
Photos

Photo ID	Aug.	Description
SP23_001	5x	Fossil or porosity filled with three generations of quartz and chalcedony.
SP23_002	10x	Poorly preserved fossil with quartz and oxide fill.
SP23_003	10x	General view of thin section.

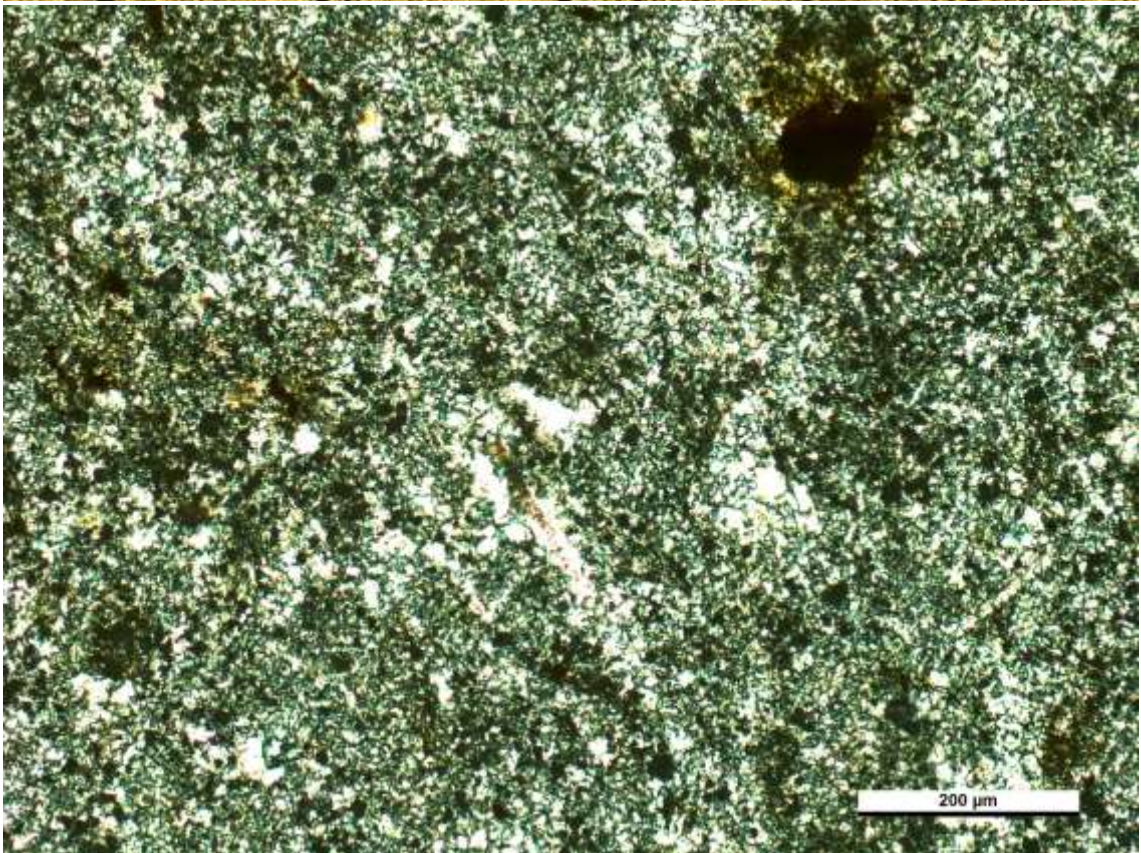
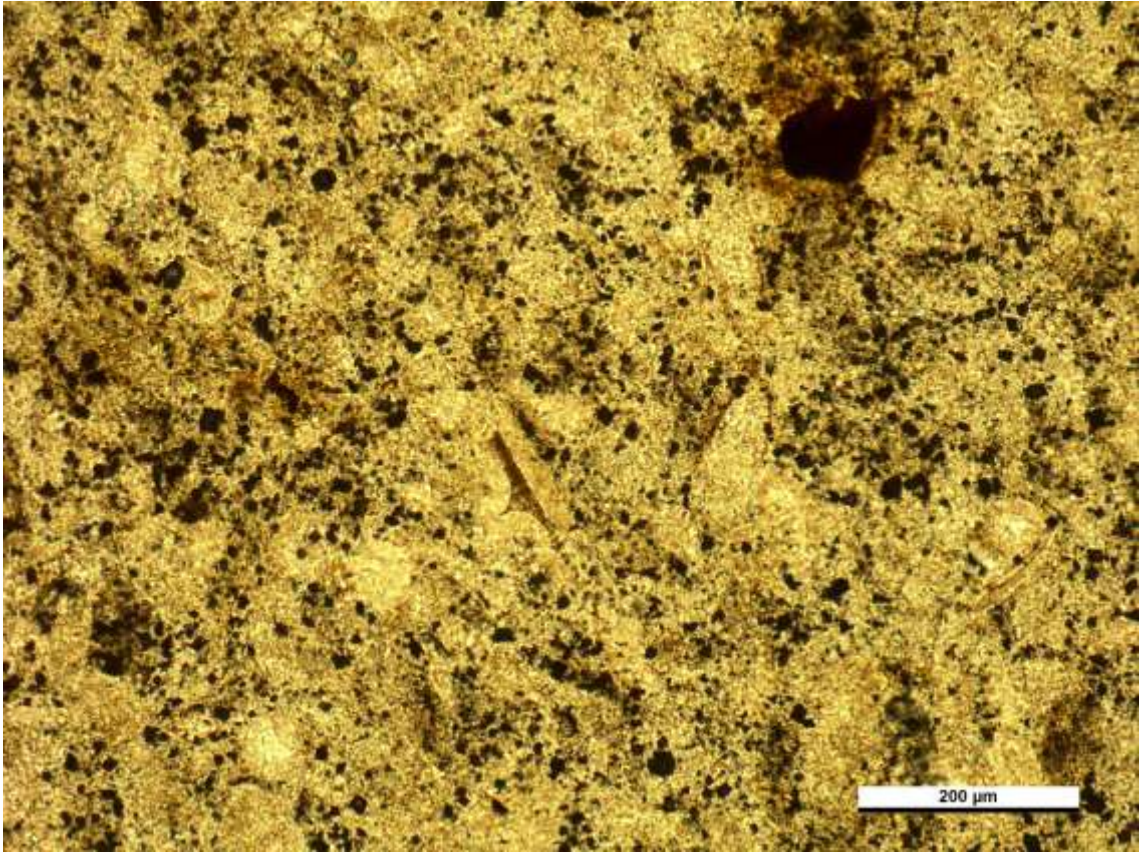
Petrography photos



SP2_BLN_001 (PPL and XPL)



SP23_BLN_003 (XPL)



SP23_BLN_003 (PPL and XPL)

Macroscopic photos





