

Sample ID and provenance

Sample ID: SP27_CSV

Lithology: Chert

Collection: LusoLit

Outcrop: Cabo S. Vicente

Unit/facies: Lower Jurassic

Thinsection: Yes

Macroscopic description

❖ COLOR

Color distribution is Mix diffuse. The colors are Very pale brown (10YR 8/2) and White (10YR 8/1).

❖ FABRIC

The luster is Dull and the translucency is Opaque. The feel is Semi-smooth and the grain is Fine. The distribution is Even with a Gradual variation. The pattern is Shaded.

❖ INCLUSIONS AND FOSSIL CONTENT

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❖ CORTEX

Cortex is Outcrop type with a Gradual transition. When tested with dilute hydrochloric acid (HCL 10%), there was no reaction. The parent rock may be a dolomite.

❖ QUALITY

The fracture is Unknown and the surface is Homogeneous. The knapping quality is Medium.

❖ OBSERVATION

The nodule is small and circular, and shows differing ranges of alteration, especially in areas which were exposed.

Outcrop description

❖ OUTCROP CHARACTERISTICS

Type of outcrop: Primary

Visibility: Good

Accessibility: Easy

State of site: Medium

❖ CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

Sample variability: Homogeneous

Frequency: Rare

Nodule description: The nodules are oval to irregular, between 5 to 10cm wide.

❖ SHORT DESCRIPTION

The chert nodules can be found embedded in the parent rock which outcrops on a flat field, close to the cliffs. The nodules are rare in this area and difficult to remove, due to the hardness of the parent rock.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Wackestone, Packstone

Microstructure: Massive

❖ COMPOSITION

ORTHOCEM	Type	%	Description
MiC quartz (gr)	SE	98	-
MG quartz (gr)	ES	1	Present as a 2nd generation of infilling.
Chalcedony (fb)	SE	1	Present as a 2nd generation of infilling.

ALLOCEM	Freq	Description
Oxides	Common	-

BIOCLASTS	Freq	Description
Ghosts	Common	-

❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 1

Porosity type: Vuggy

Other sedimentary structures: -

Observations

- ❖ Fossil ghosts are bigger and more varied than other samples.

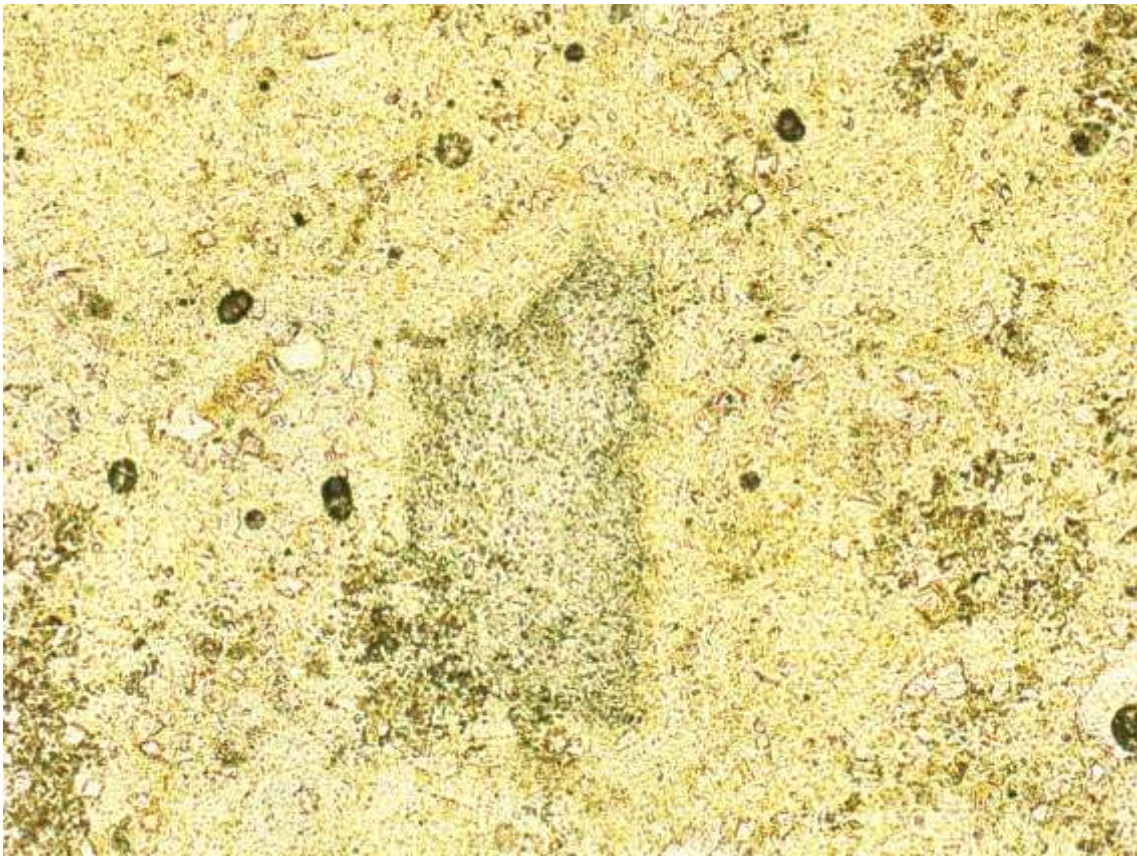
Analysis information

- ❖ ANALYST: JB
- ❖ DATE: 02.23.2022
- ❖ EQUIPMENT: Leica DM2500 P

Photos

Photo ID	Aug.	Description
SP27_001	10x	Ghost filled with megacrystalline quartz grains.

Petrography photos



SP27_CSV_001 (PPL and XPL)

Macroscopic photos

