



Sample ID: SP36\_AND Outcrop: Andorinha

Lithology: Chert Unit/facies: Possible UJ

**Collection:** LusoLit **Thinsection:** Yes

# **M**acroscopic description

### COLOR

Color distribution is Mix diffuse. The colors are Pale brown (10YR 6/3), Light brownish gray (10YR 6/2) and Pinkish gray (7.5YR 7/2).

### FABRIC

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

### ❖ INCLUSIONS AND FOSSIL CONTENT

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### CORTEX

Cortex is of Outcrop type, Thin and with a Sharp to Gradual transition. However, due to the extensive alterations to the samples, it is difficult to distinguish between the cortex of the piece and the post-depositional alterations which altered the surface of the sample. When tested with dilute hydrochloric acid (HCL 10%), there was no reaction. The parent rock may be a dolomite.

### QUALITY

The fracture type is Conchoidal and the surface is Homogeneous. Although there are no fractures, the samples show pits in the interior of the chert. The knapping quality is Good.

### OBSERVATION

All samples are altered. This alteration is probably due to post-depositional alterations, related to the secondary deposition state in which they were found. The alterations are a rounded, smooth and shiny outer patina, with a reddish/brown patina. Between the chert and the outer part, there is a white rim of altered chert which is probably related to post-depositional chemical alterations than the natural cortex of the sample.

# **Outcrop** description

### OUTCROP CHARACTERISTICS

**Type of outcrop:** Secondary

**Visibility**: Reasonable

**Accessibility:** Difficult

State of site: Bad

### CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

**Sample variability:** Homogeneous

Frequency: Sporadic

**Nodule description:** Angular and small, the chert is altered on the outside surface.

## **❖** SHORT DESCRIPTION

The chert can be found at the top of the cliff, by the beach. No signs of the parent rock are present and the chert is present as small, angular chunks and highly patinated.

# Petrography analysis form

# ❖ TEXTURAL COMPOSITION

**Texture:** Packstone

Microstructure: Massive

## COMPOSITION

ORTHOCHEM	Туре	%	Description
MiC quartz (gr)	SE	98	-
Dolomite	SE	1	-
Chalcedony (fb)	SE	1	-

ALLOCHEM	Freq	Description
Oxides	Common	-
Oncolith	Rare	-

BIOCLASTS	Freq	Description
Unidentifiable fossils (ghosts)	Common	-
Sponge spicules	Common	-
Radiolarians	Common	-

Spheres Common -

## **❖** OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 1

Porosity type: Vuggy, Moldic

Other sedimentary structures: -

# **O**bservations

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# **A**nalysis information

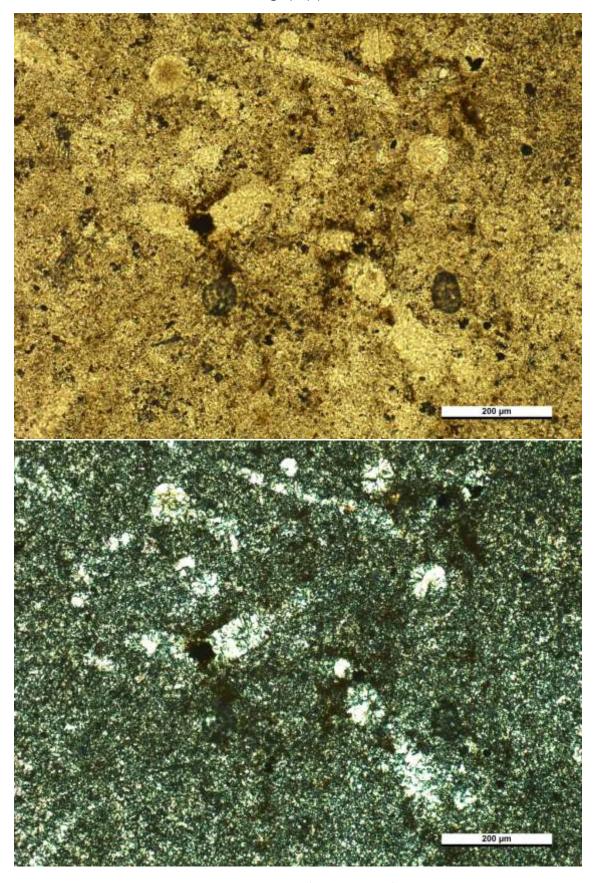
**❖ ANALYST:** JB

**DATE:** 02.23.2022

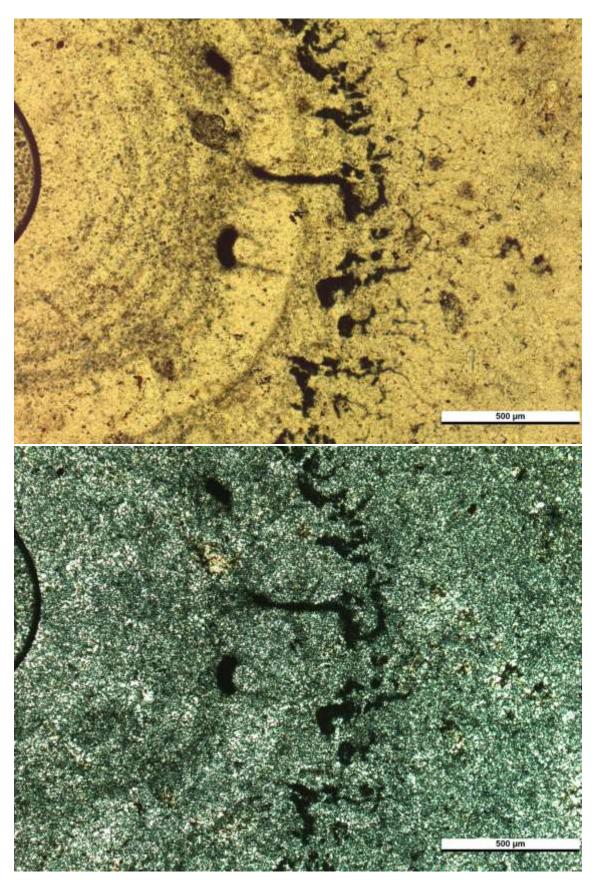
**EQUIPMENT:** Leica DM2500 P

# **Photos**

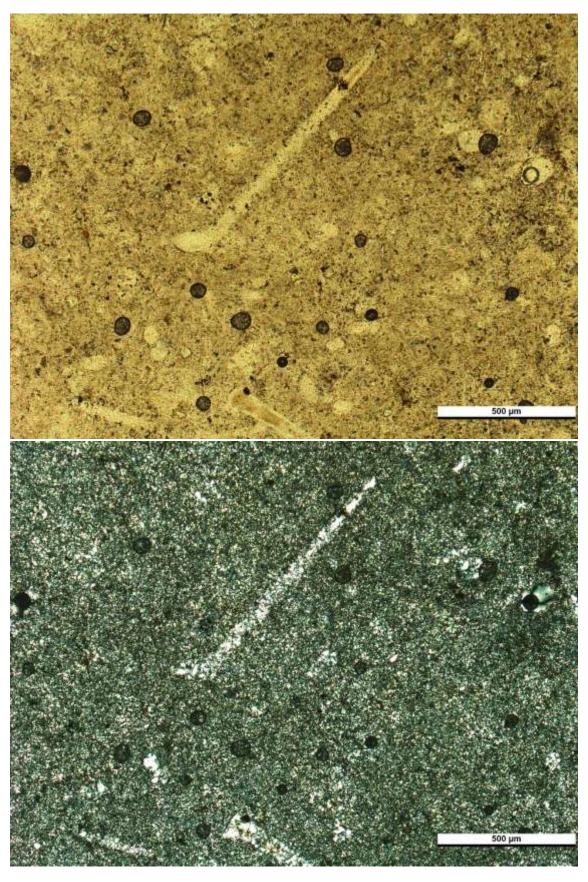
Photo ID	Aug.	Description
SP39_001	10x	General view of ghosts, iron oxides and porosity.
SP39_002	5x	Oncolith replaced by siliceous material.
SP39_003	5x	Sponge spicules.



SP39\_AND\_001 (PPL and XPL)



SP39\_AND\_002 (PPL and XPL)



SP39\_AND\_003 (PPL and XPL)

# Macroscopic photos

