



Sample ID: SP21_BLS Outcrop: Belixe sul

Lithology: Chert Unit/facies: Lower Jurassic

Collection: LusoLit **Thinsection:** Yes

Macroscopic description

COLOR

The color distribution is Mix diffuse. The colors are Purple (not Munsell), Pale yellow (2.5Y 7/3) and Very pale brown (10YR 7/4).

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 an Abrupt variation. The patterns are Shaded, Spots (50-99%) and Lines (1-49%). The spots are Marbled mottling and Speckling, with an Even distribution. The lines are Horizontal Banded and Concentric Laminated.

❖ INCLUSIONS AND FOSSIL CONTENT

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CORTEX

Cortex is from an Outcrop, Thin to Thick, and with a Sharp transition. When tested with dilute hydrochloric acid (HCL 10%), there was no reaction. The parent rock may be a dolomite.

QUALITY

The fracture is Conchoidal and the surface is Homogeneous. The knapping quality is Good to Medium.

OBSERVATION

Some surfaces of the chert seem to be patinated, which alters the color of the sample. Where it is patinated, the sample has a Reddish/brown color, replacing completely the white appearance of the original cortex surface.

Outcrop description

OUTCROP CHARACTERISTICS

Type of outcrop: Primary

Visibility: Good

Accessibility: Easy

State of site: Bad

CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

Sample variability: Variable

Frequency: Abundant

Nodule description: Oval, between 3 to 8cm

❖ SHORT DESCRIPTION

The nodules are embedded in the parent rock. They are oval, between 3 to 8cm, and with thick cortexes. The parent rocks are boulders loosely outcropping in a field near the cliffs. The outcrop seems to be dismantling. Due to this, the floor is filled with abundant broken chunks of chert, smaller than the nodules within the parent rock.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Packstone

Microstructure: Massive

COMPOSITION

ORTHOCHEM	Туре	%	Description
MiC quartz (gr)	SE	95	-
Dolomite	SE	3	-
Chalcedony (fb)	SE	1	-
Shale	AC	1	-

ALLOCHEM	Freq	Description
Oxides	Uncommon	Can be found scattered in the chert or concentrated within a fracture.

BIOCLASTS	Freq	Description
Ghosts	Common	-
Sponge spicule	Common	-
Bioclastic debris	Common	-

❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 1

Porosity type: Vuggy

Other sedimentary structures: -

Observations

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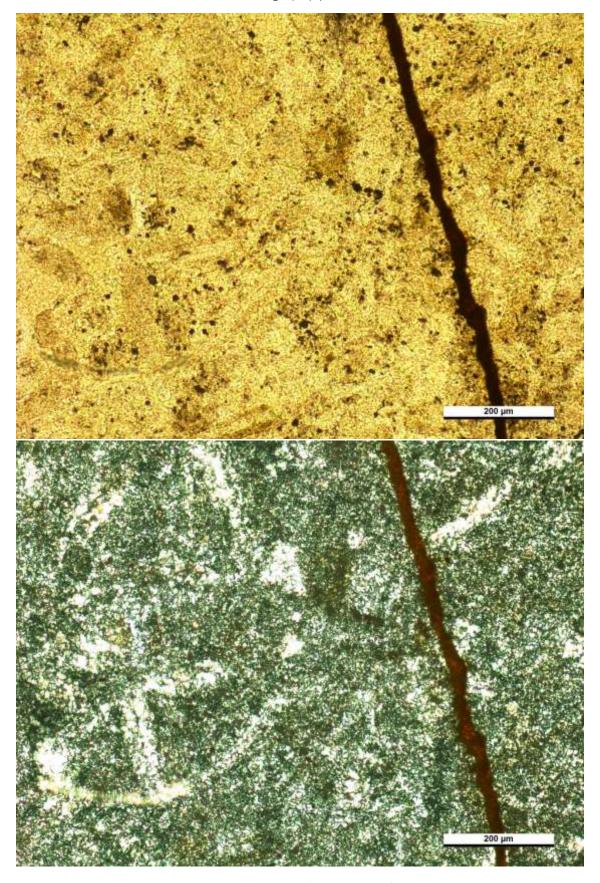
Analysis information

ANALYST: JBDATE: 24.02.2022

❖ EQUIPMENT: Leica DM2500 P

Photos

Photo ID	Aug.	Description
SP21_001	10×	View of fossils, structure and flaw filled with oxides.



SP21_BLS_001 (PPL and XPL)

Macroscopic photos

