



Pre-Meeting Trip – <u>SFT-04</u>

TITLE: Stratigraphy, sedimentary patterns and reservoir features of Jurassic carbonate successions from the Lusitanian Basin

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DATES: Monday, July 1st – Tuesday, July 2nd (two days field trip)

PRICE: 275 €

Number of participants: 20 to 22

SUMMARY:

The Jurassic of the Lusitanian Basin (LB) offers lessons for interpreting reservoir and source potential in carbonate ramp successions. Selected examples from Lower, Middle and Early Upper Jurassic of the LB will be used to illustrate a complete range of carbonate facies across the ramp system, from outer ramp (Rabaçal), inner-mid ramp [Maciço Calcário Estremenho (MCE) and S. Pedro de Moel (SPM)] and mixed non-marine-paralic-shallow marine [Cabo Mondego (CM)] settings. Each examples will be used to show the interaction of tectonics and eustasy in controlling depositional facies, diagenesis, sedimentary patterns and stratigraphical evolution. Emphasis will be placed on the reservoir and or source rock potential of each major depositional system. Outcrops will be visited in the regions of: i) Maciço Calcário Estremenho - limestone hills in the E of the LB; ii) Rabaçal, near Coimbra, also eastern LB; iii) CM and SPM, both in the W (shoreline). In the MCE region, Middle Jurassic shallow-water facies, (oolite- and skeletal-dominated sandbodies, coral-algal biostromes, lagoonal, peritidal and calcrete sediments) will be examined. At Rabaçal, a Lower Jurassic hemipelagic succession will be shown, supported by integrated and detailed stratigraphic analysis, emphasizing aspects related with sequential evolution at the basin scale. At the coastal section of CM, main targets will the Middle-Upper Jurassic basinwide disconformity, which shows the effects of a major forced regression, and singular marginal-

marine to non-marine Oxfordian source-rocks. At SPM, the focus will be Sinemurian restricted marine facies with text-book stromatolites.

DAILY DESCRIPTION OF THE FIELD TRIP

Day one (Monday, July 1st)

- 8:00 h Depart from Lisbon
- Coach trip from Lisbon to Rio Maior and MCE
- 10:00 Southern region of the Serra dos Candeeiros (Alto da Serra/Vale de Chã/Cabeça Gorda)
- 12:30 Lunch in Rio Maior (Salinas) or Casal de Vale de Ventos
- 14:00 Vale de Ventos-Portela das Salgueiras area (Serra dos Candeeiros)
- 16:00 Fórnea and Vale Florido areas (Planalto de St. António)
- 18:00 Galinha quarry (Serra de Aire)

Dinner and overnight in Fátima

Day two (Tuesday, July ^{2nd})

- 8:00 Depart from Fátima
- 9:00 Section of Rabaçal
- 12:00 Lunch in Montemor-o-Velho
- 14:00 Section at Cabo Mondego
- 17:00 The Sinemurian at S .Pedro de Moel
- 19:30 Estimated time of arrival at Lisbon