

COMPLEX CARBONATE RESERVOIRS

**FIELD TRIP
(6 DAYS)**

Course Description

The “Complex carbonates reservoirs” field trip main purpose is to show how, by correctly assess fracturing/faulting characteristics, facies types and 3D facies organization, it is possible to evaluate reservoir potential and to supply information properly for the static and dynamic reservoir models.

We chose the Southern Apennines as a field example because it contains excellent carbonate reservoirs with big reserves. These reservoirs are nowadays buried below 3500-6000m of sediments and thrust sheets but they can be examined in outcrops in different tectonic settings. In this way we can examine the geological and reservoir characteristics of these reservoir varying as we move from one tectonic setting to another.

By using the outcropping Apulian Platform Carbonates and some subsurface data from equivalent carbonate reservoirs of southern Italy, the field seminar will develop the following topics:

- observe the geological and structural organisation of the Southern Apennines geological units and the evolution of the thrust belt;
- recognise facies types in the Apulian Rudist Carbonate platform;
- understand 3D organisation facies (depositional model and sequence stratigraphic framework) on local and large scale;
- identify, describe and distribute reservoir characteristics (mainly porosity type and origin) of these facies within the Upper Cretaceous Apulian Carbonates;
- understand the hierarchy, distribution and organisation of the fault and fracture network and their relationship with compressive structures;
- verify and characterize the existence of relationship between sedimentary facies (type and geometry) and fracture (type, location and intensity) distribution in different structural conditions;
- identify the main early diagenetic processes that affected the platform and understand their relationships;
- understand the relationship between outcrop studies (facies and structural analysis) and subsurface studies (core, electric and imaging logs, production tests) and compare the results.

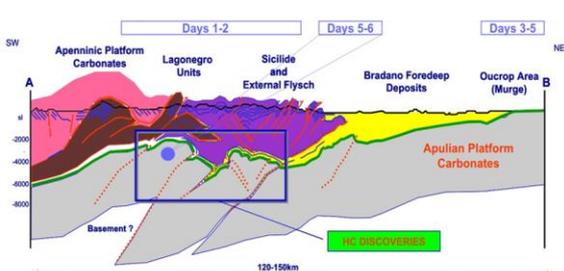
Participants

The course is designed for petroleum and production geologists, geomodellers, reservoir engineers and geophysicists working for the exploration, appraisal and development of fractured reservoirs. Ideally, the components of a subsurface team would greatly benefit from participating together.

The minimum number of participants to run the course is 5.

Location

The course will start at Naples International Airport and finish at Rome international airport.



for more information
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