Pressure and rate transient analysis for unconventional reservoirs evaluation

Course Objective

The course covers the fundamentals and practical use of pressure and production data analysis and interpretation to evaluate unconventional reservoirs. Pressure and rate transient analysis, mini frac, decline curve analysis and non linear numerical simulators are the main topics to be presented. Saphir and Topaze software will be used to illustrate basic concepts and data analysis methodology.

Who should attend: Reservoir and production engineers. Operations geologists

Program

Introduction

Modeling fluid flow behavior in non conventional reservoirs.

Testing conventional and non conventional reservoirs. Risks and benefits

Mini frac (DFIT) interpretation

Pressure and rate transient analysis applicable to horizontally fractured wells

Decline curve analysis

Analytical and numerical solutions

Pore volume and reserves estimations. Uncertainties

Field cases of applications using Saphir and Topaze

CV

Giovanni Da Prat

President

Da Prat Consulting

Giovanni Da Prat is the president of Da Prat Consulting; an oil and gas consulting company founded in 1999, and specialized on well testing and reservoir engineering. He holds both an MS degree in Geophysics (1977) and a Ph.D.

degree in Petroleum Engineering, from Stanford University (1981). He has trained over a thousand petroleum engineers worldwide. He has been a SPE Global training instructor since year 2010.

He has been an SPE Distinguished Lecturer for the period 2003-2004. “Well Testing Management. Impact on Reservoir Evaluation and well productivity”.

He wrote the book “Well Test Analysis for Fractured Reservoir Evaluation”, published by Elsevier in 1990.