

REVITALIZING MATURE OILFIELDS

Workshop Description

It is well known that primary and secondary production schemes in conventional oil reservoirs generally result in recoverable reserves between 40 to 50%, at best. Addition of new discoveries has been declining steadily in the last decades, and the increase of recovery factors from mature oilfields in known basins will be critical to meeting growing market demand. This workshop will provide participants the opportunity to review and learn the most up-to-date information and methods available to:

- 1) Improve recovery from existing mature primary and secondary projects,
- 2) Carry out screening studies to evaluate the potential for application of Enhanced Oil Recovery (EOR) technologies, and
- 3) Develop strategies to implement the EOR methods identified as having the highest probability of success.

WORKSHOP CONTENT

Reservoir Production Life Cycle - "Brown Field"
Understanding the present
 OOIP, Production History Analysis, Remaining Oil-in-Place
Identification of Uncertainties
Defining the Opportunity - An Integrated Approach
 Geology, Reservoir, production and Surface Facilities
Identifying the Opportunity
 Bypassed Oil, Pattern Management, Debottlenecking
Strategies for Revitalization of Mature Projects
 Drilling Strategies, Infill Drilling, Well Completion
 Well Conformance
Case Histories
Revitalizing Mature Oilfields Using EOR Methods
 EOR Methods, Screening, Timing for EOR
EOR Case Histories
Planning EOR Projects in Mature Oilfields
 Data Gathering and Pilot Testing
 Project Implementation
 Project Management
Future Opportunities

Duration and Scope

This high-level workshop is of five (5) days duration and involves a discussion of the state-of-the-art of revitalizing mature oilfields using integrated project analysis to identify methods to improve performance of the existing projects. Screening and implementation of EOR methods are discussed, and there are several class problems for the workshop attendees to work on. A combination of technical discussions plus class room exercises will prepare the attendees to identify opportunities based on previous field experiences, case studies, and best practices that have been gathered purposely for this workshop.

Who Should Attend

This five (5) days workshop is custom-designed for senior managers, managers, senior engineers, and other professionals, familiar with reservoir and production engineering, who wish to improve their technical skills and understanding of the revitalization of mature oilfields and the potential application of enhanced oil recovery (EOR) techniques to those fields.

Workshop Requirements

Each workshop attendee (student) should bring their own notebook computer to work on the class problems. Class room should be equipped with power strips, for students to plug in their notebook computers, and a projector for instructors to project their PowerPoint slides.

Workshop Manual

Each workshop attendee will be provided a workbook containing copies of the instructors' PowerPoint presentations, and solutions to the class problems.

Workshop Instructors

This custom designed workshop will be conducted by our high-level and seasoned consultants, with extensive knowledge and experience in the subject matter as well as in conducting training programs around the world.

Language of Instructions

This workshop will be conducted in the English language. However, if desired by the client, one of our bi-lingual consultants can be present throughout the workshop for the benefit of those attendees who are not fluent in the English language. This workshop can be customized further to meet the needs of the client's professionals and managers.