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International Society of Petroleum Engineers

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SPE Vision

Enable the global oil and gas E&P industry to share technical knowledge needed to meet the world's energy needs in a safe and environmentally responsible manner.

Title: Techno-Commercial Challenges in Field Development Planning

By: Dr.Rahim Masoudi

From: SPE International Distinguished Lecturer

ABSTRACT:

Most of the producing mid-size to the giant hydrocarbon assets worldwide is categorized as mature fields with substantial remaining reserves suffering from rapid production declines with enormous production and operational challenges. Asset Value Enhancement and Field re-Development Planning, especially in the Producing and Mature Fields, has multi-dimensional scopes from Operational, Technical and Development to the Contractual, commercial and collaboration aspects. Monetization and maximizing the asset values of such fields under the current industry challenging time need to be Objective & Value & Data Driven through proper transformation while the project teams need to be staying competitive and focused, reflecting & re-thinking the business approaches with prioritized action plans.

The reliability of the formulated Field Development Plans for complex assets is closely tied to the understanding of the multi-aspect uncertainties and associated risks together with the techno-commercial assumptions that go into the FDP. Majority of FDPs come with big surprises in term of the production and reserves post implementation that challenges the viability of the investment and project economy. In addition to the subsurface technical challenges, the aged facilities/infrastructure, operational, cost management and commercial concerns associated to the producing fields add more complexity to such projects. Proactive transformation via Investment rationalization, asset profiling & prioritization, Project phasing & de-risking approached such as Fast track development and production strategies through Early Development Plans (EDP) and Early Production Systems (EPS) can potentially help cash generation in under-developed producing fields.

This session will share some real case examples on challenging FDPs and serve as a platform for putting together the various elements of ideas and concepts, best practices and techno-commercial & data-driven initiatives, approaches and technologies for current practices in efficient Field Development Planning and hydrocarbon asset management projects especially with a focus on cost effective technologies and innovative approaches.

Fee:
SPE Membership:2,000,000R
Non SPE Membership:3,000,000R

Date: 1396/10/12

Deadline: 1396/10/6

Dr. Rahim Masoudi

I have more than 20 years industrial and academic experiences and currently I am Custodian- Reservoir Engineering & TRC (Technical Review Committee) Technical Lead at Petroleum Resource Management post serving as Custodian IOR/EOR for 3 years at Petroleum Resource Development at PETRONAS and also an Adjunct Prof. at University Technology PETRONAS. I was recognised/served as SPE Distinguished Lecturer in 2011-2012 seasons, received the 2012 SPE Northern Asia Pacific Regional Technical Award on Reservoir Description and Dynamics, appointed as a member of SPE Regional Technical Advisory Committee in Asia Pacific in October 2013, awarded the 2012 Line Trainer of the Year by PETRONAS PE Skill Group, published one book.and more than 110 international journal, conference papers and 3 patents. I have supervised more than 35 MSc and PhD students in Petroleum/Reservoir Engineering in various areas and carried out more than 50 reservoir studies. As the Custodian-Reservoir Engineering, which is the technical authority and highest technical ranking in PETRONAS, and as a recognized world level expert in Hydrocarbon Resource Development & Management, my objective is to develop and apply effective workflows and solutions and right technologies for improving/enhancing production/reserve and managing resources more efficiently at the lowest cost. My role in PETRONAS and as Technical Lead of TRC, which take care of Integrated Asset Development & Management, is to assure the techno-Commercial aspects and provide workable solutions involving group wide interface with PACs and lead various IOR/EOR & field developments and reservoir characterisation as well as the new technology development & acquisition, including the IP development, to ensure value creation target for the Group are met. I also significantly contribute to role model the technology transfer, training, coaching and mentoring junior engineers to ensure institutional capability development plan are achieved.