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How to Get the Most Out of Your Oil Rim Reservoirs?

By :
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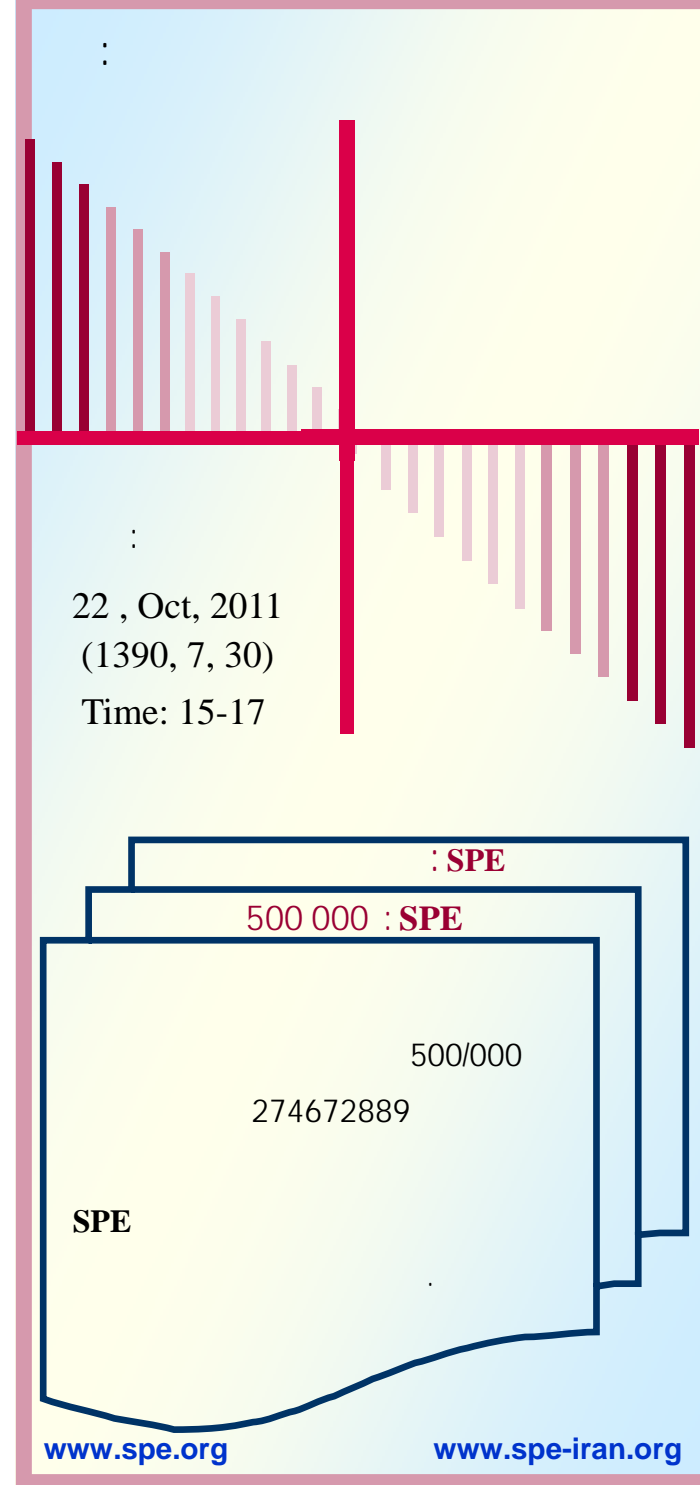
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Abstract:

How to Get the Most Out of Your Oil Rim Reservoirs?

Oil production from oil rim reservoirs has always been a challenge due to their thinly spread oil resources and complicated production mechanisms. Movement of oil/water and gas/oil contacts could be very sensitive to conventional production operation and cause detrimental early water/gas breakthrough. The low oil production volume and, hence, low recovery (typically less than 18%) make the oil rim field development economically less attractive. However, integration of state-of-the-art engineering approaches, innovative technical initiatives and new technologies can make a significant change in the oil rim reservoir development.

The presentation covers the reliable volumetric assessment and development concept (i.e., sequential or concurrent), robust and proactive reservoir management policy to advise on depletion strategies and production to control the conning and cusping of water and gas. In addition, discussed are the utilization of new technologies, appropriate production technology advice to assist timely development decision making, best simulation and modeling approach for the applied technologies (e.g., smart wells/completion, ICD/ICV, tracer, etc.) and complicated mechanism and dynamics involved in oil rim development. The recommended approach will be elaborated throughout the presentation and, finally, the success and value creation of the recommended methodology will be demonstrated in various real case studies.

Biography:

Dr. Rahim Masoudi

He is currently a Principal Reservoir Engineer for Petroleum Resource Development in PETRONAS and serves UTP University on a part-time basis. Masoudi is a recognized expert and invited lecturer in the oil and gas industry on IOR/EOR, reservoir fluid/engineering/simulation/management, production/flow assurance and optimization and gas hydrate. He has held various research and development, technology management and field operation technical support positions throughout his 14 years career in the industry and university. Masoudi holds 3 patents, has published more than 50 international journal and conference papers, has supervised more than 30 MSc and PhD students in petroleum/reservoir engineering in various areas and carried out more than 30 reservoir studies. He holds a BSc and an MSc in chemical engineering, both with first class honor, and a PhD in petroleum engineering from Heriot-Watt University, UK.