

Adding More Value in the Downturn Time from Digital Oil Field; What is More to Leverage

Speaker:

Dr. Abdullah Al Qahtani, Ph.D.

Director, Technology and innovation

www.petroart.com

Date and Time: Tue. 28th Nov. at 1:10pm, Room: 2013

Abstract:

This seminar focuses on the endeavor of developing ADHOC solutions, pertaining well/reservoir performances optimization. These solutions, were driven by needs and derived from newly developed scientific and technically sound methodologies. These solutions were brought about to cover overlooked aspects of digital oil field applications. New indices/metrics are introduced to gage the performance and ensure quality in reservoir, well architected/subsystem designs, reliability, integrity, and well control issues. These indices are meant to develop life-cycle designs and assure total well management. The developed solutions will help identify high value opportunities and candidate well for intervention and workover using operating envelopes, develop robust systems for well integrity and equipment reliability management system, enable efficient reservoir management and performance analytic tools, provide assessment of well productivity and well system performance, enable well flow capacity validation and optimization (single well/multiple wells), enable horizontal/multi-lateral wells monitoring and optimization, and provide transient flow/pressure analyses for reservoir and well performance optimization. Field case studies, using some of the proposed solutions, will be presented

Biography

Dr. Abdullah Al Qahtani, is a petroleum engineer by background and practice. He has his BS, MS & Ph.D. from king Fahd university of Petroleum and Minerals, KFUPM. Abdullah worked in Saudi Aramco in various engineering and operation departments. He was a production technology research consultant in the R&D group with specialty in artificial lifting, well completion, and flow assurance. He has several SPE publications in his focus areas. Dr. Abdullah founded the Petroleum Advanced Research and Technology, PetroART, and currently in research collaboration with Aramco and other research entities