

Evaluation of Multiphase Flow Metering Using Separation Technology: A Case of Joint University and Industry Collaboration

By

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Multiphase Flow Metering (MPFM) plays an important role for real-time oil and gas reservoir management. Several commercial MPFM devices have been developed and are available with varying degrees of precision. The present talk will start by explaining the central role of MPFM in production systems and then provide a review of existing prominent MPFM technologies. The presentation will then give an overview of a concrete joint work between university, a technology developer and National Oil Company in their quest to develop a MPFM using an inline liquid-gas separator. The different steps in the evaluation of the separation technology that includes combined experimental and computation techniques will be given.