



Society of Petroleum Engineers Technical Program 2018-19

Utilization of Smart Field concept in mature gas field rehabilitation

Bogdan Simescu
Chief of Filitelnic Rehabilitation Project, Medias Branch, ROMGAZ

Abstract:

During the last years were introduced new technologies and ways of working in Romgaz fields ensuring that there are technical solutions for each asset in essence to integrate people, processes and technologies.

Assets, which are part of the Smart Field program, have shown increased production, time delivery, faster and superior decisions making, improve cooperation, detecting errors and increase ultimate recovery while reducing costs.

The philosophy of a smart field is based on the following scheme: “to measure – to simulate – to take a decision – to follow – to control”

This paper discusses the integration of smart sensory and control devices within the company’s gas fields, seeking the optimal production strategy.

We present a unique case study detailing real-time field and well performance monitoring, management and production optimization.

Monitoring with real-time capabilities helps engineers across the company to understand the behavior of the field, which leads to better analysis and real data.