

Shell Accelerates with Tech-Driven Forecasting



Save time with a powerful front-end planning software

In its pursuit to move faster and lead the industry in global E&P technology, Shell Exploration and Production has targeted specific frontend planning processes for improvement to be aided by technology. Software has aided simulation modelling of reservoirs for nearly a generation. While reservoir simulation has provided rich benefits, these have largely remained isolated in the reservoir engineering domain. The company has now turned its attention toward integrative opportunity planning across all subsurface, surface, and economic planning domains with the use of commercially available business simulation software. This article describes how this business simulation software is being deployed at Shell and how necessary organizational workflow changes are being facilitated.

Managers at Shell targeted multiple areas for improvement:

- Move faster, reducing turnaround time for making the “go/no-go” business case on a reservoir opportunity
- Adopt an integrative process for managing decisions beyond the reservoir and across the entire value chain.

To extend integrative planning beyond the reservoir, encompassing the entire value chain, Shell is implementing an approach to scenario planning using PetroVR business simulation software.





“ The key difference between the old spreadsheet approach and the integrative business simulation approach is that a reservoir engineer or a drilling engineer will now input his or her assumptions along with the data ”

- Andy Breckwoldt,
a team leader in Shell Development Planning



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