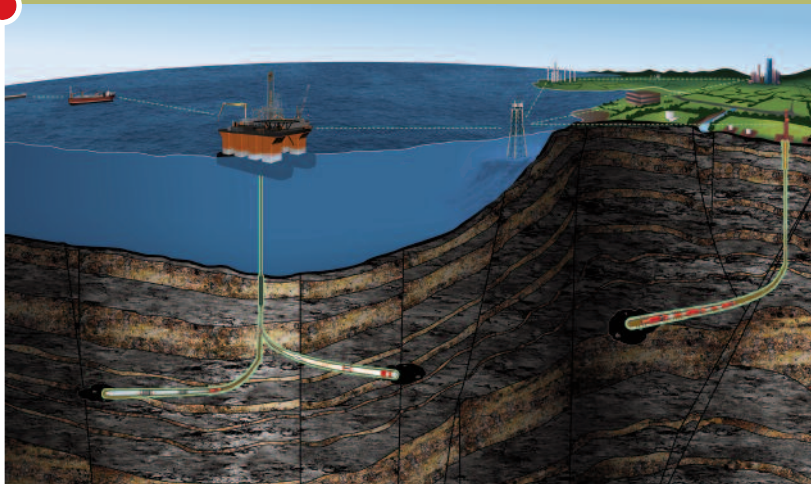


Collaborative Well Planning

Accelerates field planning, increases wellbore accuracy and improves reservoir development efficiency by creating a highly integrated, collaborative well planning environment

Business challenge

The complexity of drilling and completions increases every day. Ultradeep wells, extended horizontal wellpaths and complex reservoir targets now represent the norm. In this environment, prolonged well-planning cycles can cost millions of dollars. So can targeting, wellpath and platform position miscalculations. With profitability at stake, engineers must plan more efficiently – despite complexity and the increasing volume of data with which they must contend.



From concept to completion, the total solution

Our Collaborative Well Planning workflow represents a quick solution to these problems. From concept to completion, the Collaborative Well Planning workflow provides you with the tools you need to successfully plan wells in complex reservoirs. It enables multidisciplinary teams to generate targets, position platforms or pads, and define complex well trajectories within the context of subsurface interpretations and earth models.

Efficiently optimizes reservoir development plans

Workflow tools include 3-D visualization of data from multiple disciplines, automated planning features and scenario sensitivity analysis. These features help optimize plans for platform or pad requirements more effectively. They also create trajectories to reach multiple targets with a minimum number of wellbores.

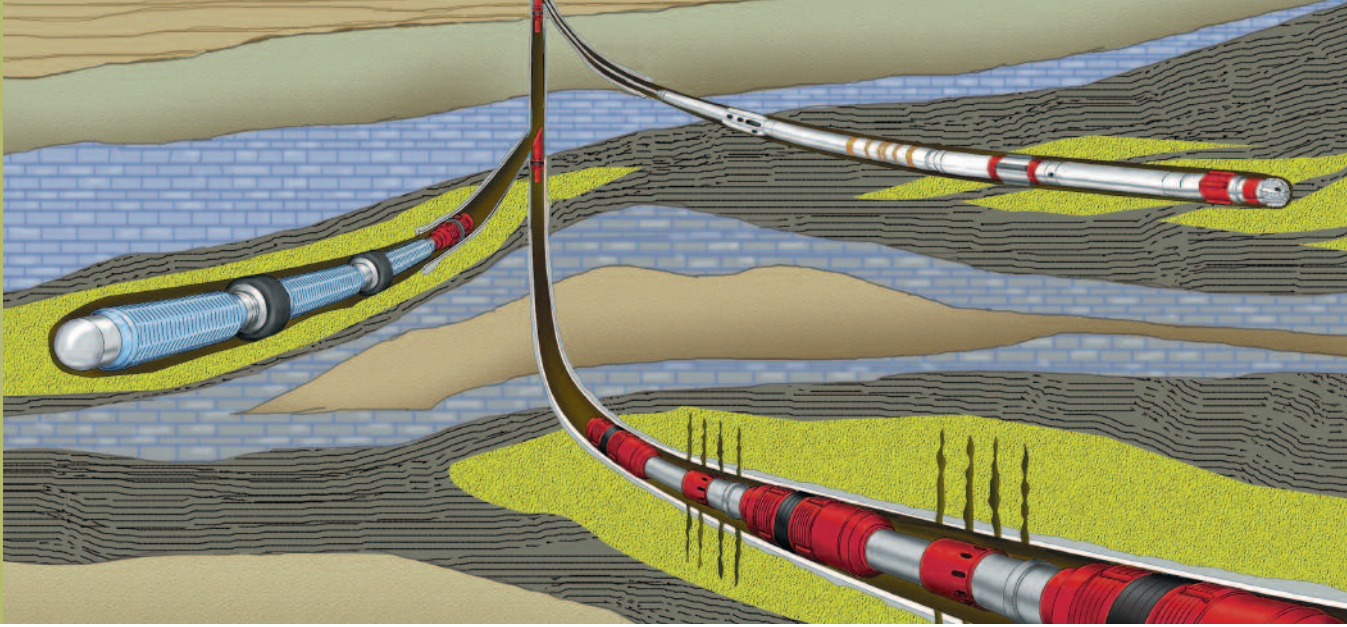
This workflow incorporates risk and uncertainty and costing tools. It accelerates field planning, lowers costs and produces more efficient reservoir development plans.

The following enable the Collaborative Well Planning workflow:

- AssetView™ software for common viewing by the entire asset team
- TracPlanner™ software for wellpath manipulation
- PrecisionTarget™ software for better target definition
- AssetPlanner™ software for target generation and multiwell path planning
- Field Scenario Manager™ software for creating and managing multiple sets of field-development drilling scenarios

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Enhances productivity and profitability by:

Optimizing your field development plan

Quickly create and review multiple field planning scenarios with sensitivity analysis tools to maximize ROI.

Enhancing asset team collaboration

Plan wells in the context of geological, geophysical and reservoir models. This enables cross-disciplinary asset teams to collaborate with a clear view of risk and uncertainty.

Compressing well-planning cycle time

Integrated workflows leverage multidisciplinary data, asset team collaboration and automated workflows to compress the field development planning process.

Improving performance

Common results for this integrated workflow include safer well plans, low-cost designs and less nonproductive time.

Leveraging your asset team's expertise

Each asset team member and each discipline can define inputs and constraints.

Creating flexible workflows for complex environments

Collaborative Well Planning arms asset teams with tools that address many different types of scenarios. For instance, in deepwater, finding and hitting relatively small targets with a limited number of complex well trajectories may be the challenge. Conversely, in tight sands, hundreds or even thousands of gas wells drilled from dozens of pads may be required to produce the field economically. This workflow easily adapts to any challenge.

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