DecisionSpace® Well Planning Software

**OVERVIEW**

DecisionSpace® Well Planning software helps asset teams keep pace with ambitious drilling schedules in complex offshore developments and in unconventional plays where planning hundreds of horizontal wells is often required. This software helps reduce well planning cycles by leveraging advanced automation techniques to quickly plan any combination of targets, pad, or platform locations, and well trajectories for single wells, relief wells, and field development scenarios.

The software delivers a step change in well planning efficiency by supporting a multidiscipline approach where geoscientists, well planners, and drilling engineers can work collaboratively in a single application, and in the context of a shared earth model. Algorithms optimize field development plans based on user-specified cost parameters, risks, uncertainties, and degrees of difficulty.

DecisionSpace Well Planning software is a module of the DecisionSpace® software suite – a unified visualization, interpretation, and modeling workspace where asset teams can collaborate effectively to evaluate and develop assets. This software delivers a true multi-user environment with unprecedented integration across multi-domain workflows and data types – all on the award-winning data management foundation of Halliburton Landmark OpenWorks® software. The DecisionSpace Well Planning software module includes the following integrated components: Single-Well Planning, Multi-Well Planning, Horizontal Targeting, and PrecisionTarget™ applications.

**KEY BENEFITS**

» Can dramatically reduce cycle times from months to days when planning single wells or a full field development plan
» Manage and rapidly analyze multiple planning scenarios
» Help lower your cost and environmental impact by planning complete field scenarios on a unified platform

**KEY FEATURES**

» Automatically generates well plans in the context of all subsurface geological and geophysical (G&G) data, as well as surface topology, geographic information system (GIS), and lease information
» Ability to quickly develop detailed relief-well plans required for permitting deepwater wells
» Algorithms that optimize site locations, well paths, and target selections based on user-specified cost parameters, risks and uncertainties, and degrees of difficulty

Figure 1: Field development planning from surface to target occurs in a single application

Keep pace with ambitious drilling schedules in increasingly complex offshore developments and unconventional plays.
WELL CONSTRUCTION

BENEFITS

Reduced Well-Planning Cycle Time
With this software, field development planning for offshore or unconventional assets can be reduced from months to days. Asset teams can also work together more efficiently in a unified 3D visualization environment, where well-planning decisions can be made in the context of relevant G&G and GIS data. DecisionSpace Well Planning software enables automation technology to replace the cumbersome manual methods of the past.

Support Better Planning & Design Decisions
Cross-domain data integration and workflows ensure that planning results can draw on the combined expertise of geoscientists, well planners, and engineers. Well planning in the visual context of subsurface geoscience data and known surface constraints, or hazards, can lead to more effective designs. Algorithms optimize site locations, well paths, and target selections based on user-specified cost parameters, risks, uncertainties, and degrees of difficulty. This software delivers the necessary tools for managing and rapidly analyzing multiple planning scenarios.

Help Lower Cost & Environmental Impact
By planning complete field scenarios in a unified plan, asset teams are able to maximize drainage while reducing drilling delays and eliminating hours of rework, costly pad extensions, and unnecessary environmental impact. Advanced technology helps reduce surface area and environmental impact by optimizing well spacing and pad design. Whether developing deepwater targets or unconventional resources, this software can help drilling engineers and geoscientists rapidly iterate through field development scenarios while taking into account “go” and “no-go” zones, lease lines, and hazard-avoidance spacing for both surface and subsurface constraints.

FEATURES

Horizontal Targeting
Target Generation
Well Path Design
Field Scenario Planning
Platform & Pad Positioning
Relief Well Planning
Precise Driller’s Targets
Data Integration
Application Integration
Data Manipulation

SYSTEM AND SOFTWARE

Operating Systems
» Microsoft® Windows® 10 64-bit
» Red Hat® Enterprise Linux® 7.4 64-bit

System Requirements
» OpenWorks® 5000.10.6
» Oracle® 12.0.2.1

DecisionSpace® Base Module is required

“Decreasing the well planning cycle by 50 to 80 percent means you can spend more time looking at more drilling details and optimizing potential production.”

DRILLING TECHNOLOGIST, U.S. ONSHORE OPERATOR

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