

An element of safety



## Visualize barriers to strengthen risk management

**WellbARRIER Illustration Tool** is a specialized visualization software that helps to efficiently prepare well barrier illustrations and related key information throughout the lifecycle of the well.

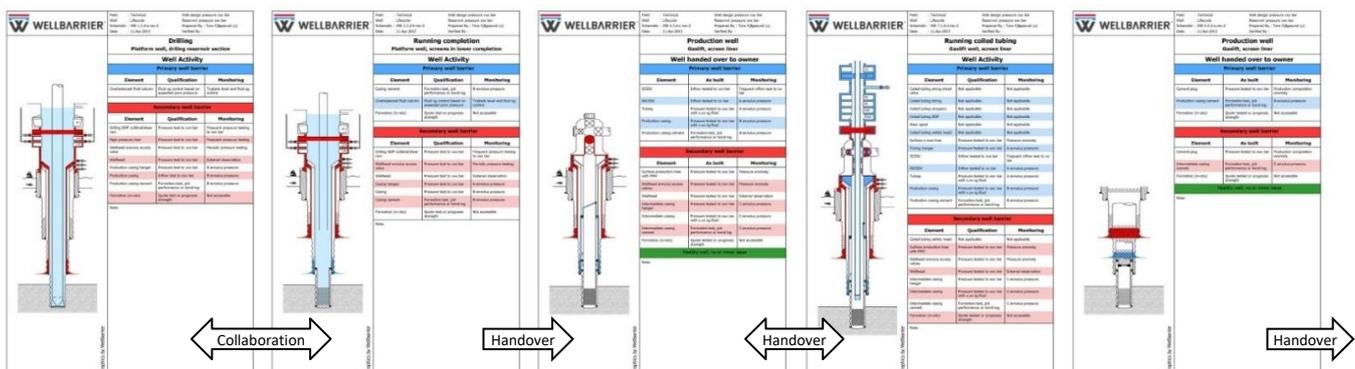
Planning

Execution

Operation

Intervention

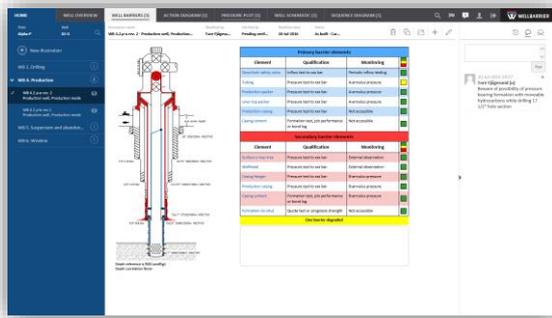
Plug & abandonment



The list of well barrier elements changes throughout the lifecycle of the well, but is always part of the ongoing work.

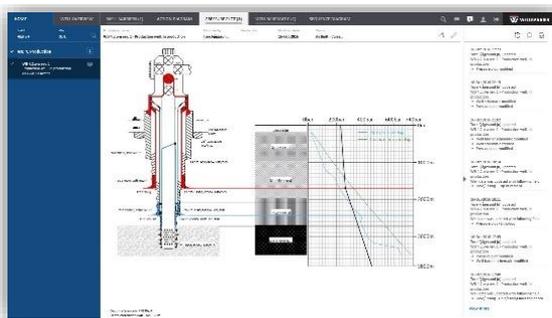


## Wellbarrrier Illustration Tool - functionalities and modules



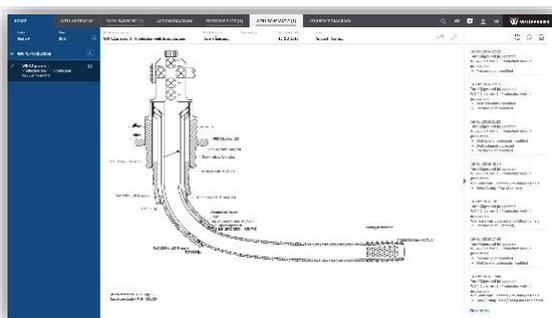
**Well Barrier Schematic** is the backbone of Wellbarrrier Illustration Tool. The main purpose of the Well Barrier Schematic form is to show the well with all its well barrier elements in a clear and consistent manner.

It ensures all the well barrier elements are listed with information of how they are qualified and monitored. In Wellbarrrier Illustration Tool we also show the status of the well barrier elements and the overall well status for production and P&A activities.



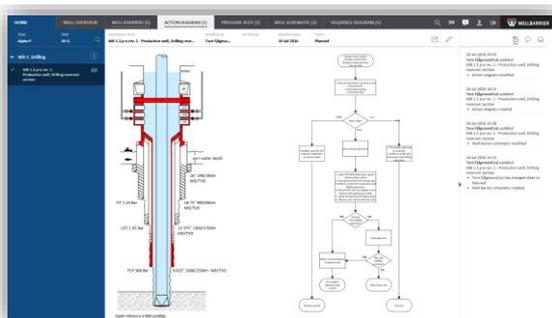
**Well Barrier versus Pressure Plot** aligns the well barrier illustration with the lithology, pore and fracture pressure curve, and offers a clear understanding of the formation strength at critical points in the well.

It gives a very clear presentation on how the formation strength in the well is capable of withstanding pressure outside casing.



**Well Schematic** is produced based on the well illustration you already prepared for the Well Barrier Schematic. It is used to show the curvature of the well, with appropriate annotation for key components.

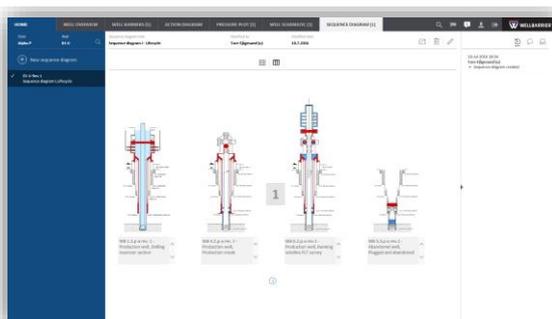
A centerline is added to the well barrier schematic together with completion component details. The curvature is simply shaped by drag function.



**Well Control Action** form has an easy to use flow diagram editor. It is used to show how well incidents can be handled.

A top event is identified and a proposed course of action is identified and relates to well responses as you proceed.

It is a useful attachment to include in i.e. coiled tubing operations and likewise where the equipment in use is not necessarily well known to all stakeholders on the rig.



**Sequence Diagram** is a representation of selected well barrier illustrations you have prepared for the well. This can be output on A4, A3 or large size plotter paper and be made available in meeting rooms or places where all stakeholder have access and can see the planned progress of the well work.

It gives the user an easy overview of the well activity step by step through the operations.

