

## Tech Sheet

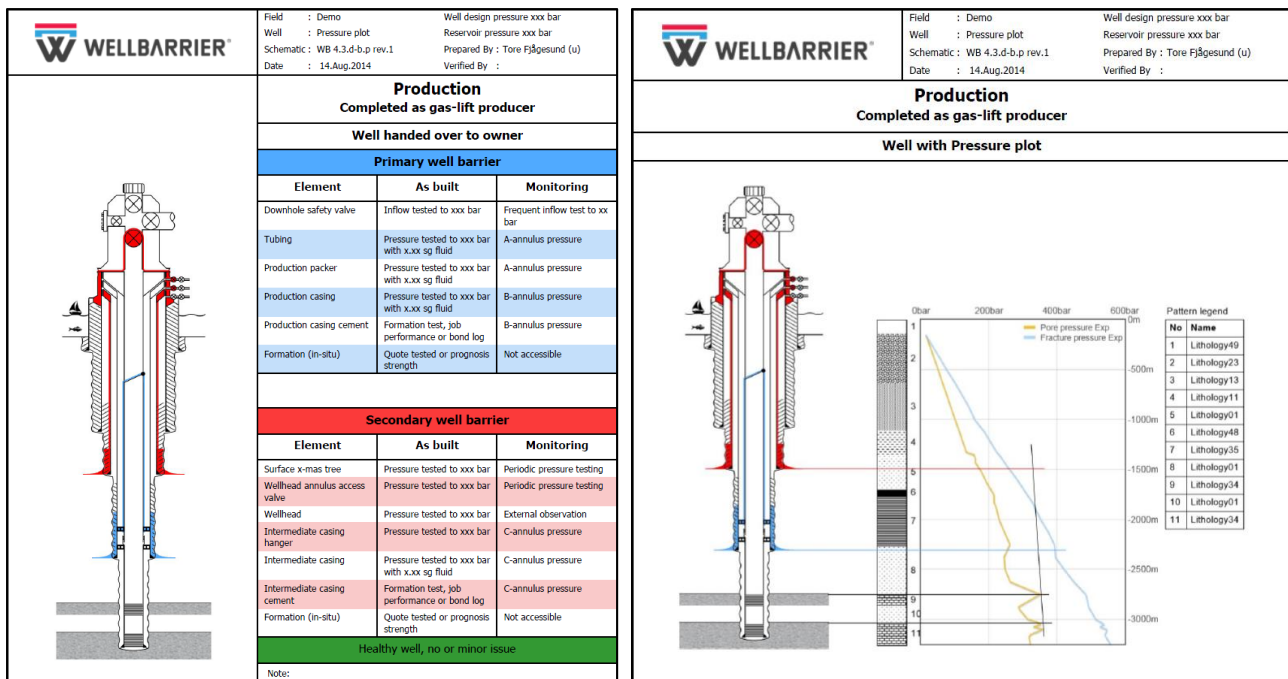
# Well barriers versus pressure plot feature

### Objective

- Make safe wells and contain pressure
- Clearly visualize your barrier definitions
- Make sure everyone understand the barriers, strengths and weaknesses in the wells

### A new approach to well barrier design

Traditionally we have Well Barrier Schematics forms that list barrier elements, and how they are qualified and monitored. Wellbarrier have now developed a supplementary solution where we place the lithology and pore and fracture pressure curves next to the well barrier illustration to clearly see how they interact.



### Features now available in the “Wellbarrier Illustration Tool”

- Easy import function of pressure and density data from excel format
- Lithology can be shown or omitted
- Easy correlation of illustration depths against the depth scale on the pressure plot
- Formation strength points on the illustration are drawn across to the pressure plot
- Horizontal reference lines are drawn at any point of interest (top of formations in particular)
- Single or dual gradient lines can be added to pressure plot. These will be automatically adjusted to the units, scale and physical height of the plot
- Allow any unit of measure to be used, so that understanding across operating entities is made easy.
- Can be presented as both pressure and density plots

### Benefits

- Clearly identify vulnerable points in the well
- Ensure that the formation has sufficient strength at the defined barrier depths
- See effect of gas filled wells based on maximum formation spikes
- See how pressure applied from surface (or through leaking tubular) affect the well system
- Allows stakeholders to clearly see situations and risk in the well
- Shows evolution throughout the lifecycle of the well