

Tubular String Mechanical Integrity

Ref: SI07

Objectives

- Mechanical analysis to determine harmful stress on specific tool (reduced price compared to [SI01])
- Determine the evolution of tri-axial stresses across sensitive downhole tools along the run
- Ensure safe positioning of sensitive string components
- Identify safe and efficient tripping speeds; Anticipate tight spots and plan preventive measures

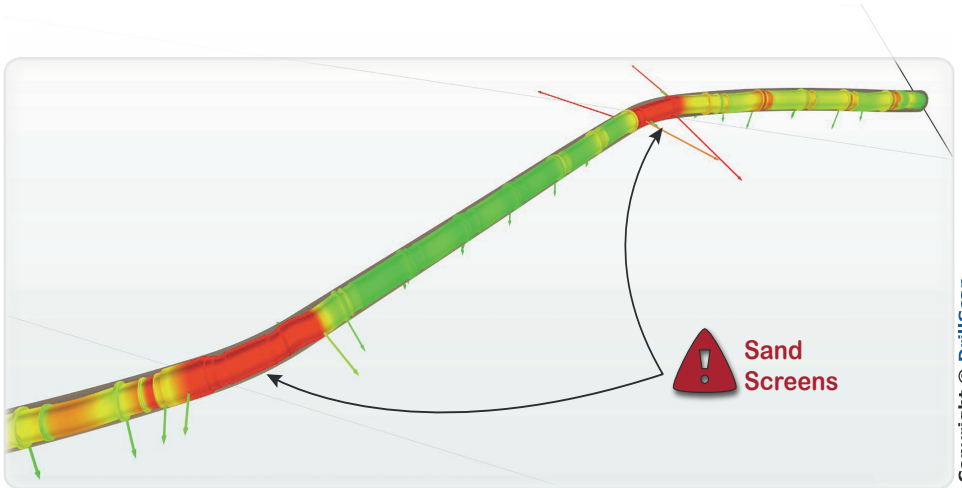
Benefits /

Pre-Well

Real Time

Post-Well

- Reduce NPT and CAPEX by avoiding critical string component failure
- Reduce hidden lost time in challenging well trajectories (short/medium radius, 3D complex wells, side tracks)
- RIH sensitive downhole tools in a safe and efficient manner
- Improve learning curve by proper understanding of component failure in a post-well analysis



Areas of over-stressed sensitive completion tool

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Includes

- Stiff-string model including unique contact point management and stress calculation
- Analysis of side forces, bending stress, von Mises stress, buckling severity index (taking into account: friction factors, tortuosity and pipe rotation)
- Any element in any location along the string (completion string, casing string, drill string, liners...)
- Anticipate tortuosity using randomized distributions or detailed survey reconstruction ([SM01])

Deliverables and Timing

- Earliest result delivery within 3 days after reception of full and usable set of data
- Delivery of final PowerPoint® or written report within 1 weeks, intermediate reports on demand
- Result support from our most experienced Drilling Champions, upon request
- Result presentation in client's office (optional)
- Real-time support available onsite or remotely (optional)