

Casing Centralisation Placement

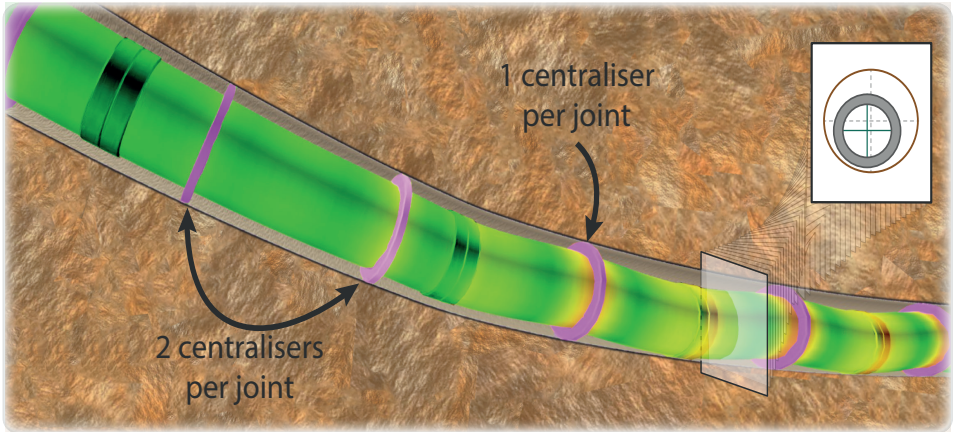
Ref: WI03

Objectives

- Achieve the cementation and annulus safety barrier objectives
- Ensure appropriate stand-off along the shoe track and casing string by simulating centralisation
- Determine casing string deformation against doglegs and solve issues using proper centralisation
- Ensure proper choice of centraliser type and quantity to achieve a fit for purpose solution
- Avoid abnormal annulus pressure developments during the life-cycle of the well

Benefits / Pre-Well Real Time

- Ensure proper well integrity for the entire well life-cycle by uniform cement distribution
- Improve safety by enhancing cement barrier effectiveness and meet company and legal requirements
- Prevent loss of production and/or reservoir damage by gas migration through insufficient cement
- Anticipate remaining cased hole doglegs to launch mitigation measures early on
- Reduce hidden lost time and potential failure by suboptimal centralisation program



Stand-Off qualification along the casing string

Includes

- 3D deflection of the casing using unique stiff-string Torque & Drag & Buckling model
- Casing Stand-Off simulation throughout the entire well trajectory
- Advanced centralisers modelling (bow spring, rigid...) and placement recommendation
- Fit for casing while drilling (optimise string design to achieve standoff and directional objectives)

Deliverables and Timing

- Earliest result delivery within 6 days after reception of full and usable set of data
- Delivery of final PowerPoint® or written report within 3 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)