

Drilling Jar Placement Analysis

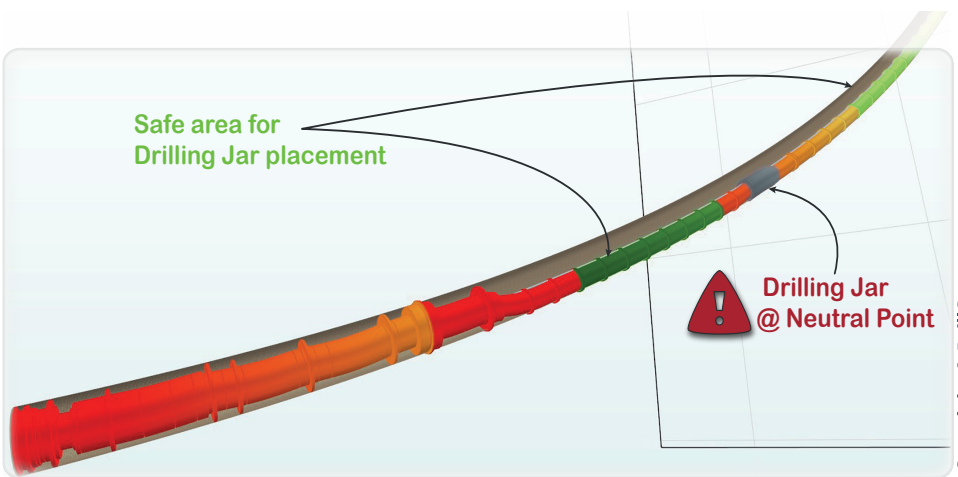
Ref: SI03

Objectives

- Ensure that the drilling jar remains in compression or tension for the entire operation
- Identify optimum jar placement for effective resolving of stuck pipe
- Check the compliance between application and manufacturer specifications
- Optimise suppliers jar up/down firing load calibration with accurate axial load calculation
- Evaluate usefulness of jar, or deliver multi jar solutions in highly deviated wells

Benefits / Pre-Well Real Time

- Avoid severe injuries as well as BHA and rig damage caused by jar misfiring
- Reduce stuck pipe related NPT by increasing jarring efficiency
- Reduce NPT by avoiding mechanical equipment failure
- Avoid drilling with jar in or around neutral point
- Verify safe loads are applied on the jar during RIH



Area of safe positioning of a drilling jar

Includes

- Ensure that all operations, from drilling to completion RIH, are properly planned and feasible
- Determination of internal jar stresses during all operations
- Sensitivity Analysis on friction factors, drilling fluids, hole overgauge and tortuosity...
- Calibration parameters for jar supplier and recommendations on jar specifications

Deliverables and Timing

- Earliest result delivery within 2 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)