Sondex™
a Baker Hughes business

Well Entry Simulation Tool (WEST)

Deployment Risk Modelling Software

Applications

- Tension simulation at depth
- Tractor Conveyance simulation

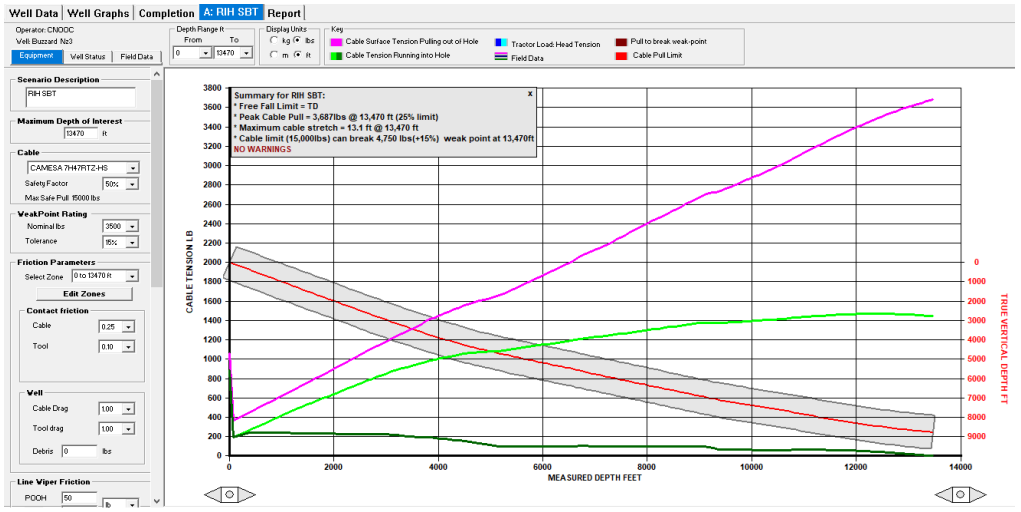
Features and Benefits

- Allows the characterization of the magnitude and nature of deployment risks present in complex well interventions jobs
- Free fall depth
- Peak cable pull and % of limit
- Peak tractor load and % of limit
- Maximum cable stretch
- Maximum Weak point rating that can be broken and not exceed the safe surface pull

The Sondex **Well Entry Simulation Tool (WEST)** software models the forces present in wireline and downhole tools during a logging job. This allows the accurate prediction of cable tensions at the surface and the cable head and identifies operational safety limits.

WEST is an essential planning and job control tool for any wireline intervention. Simulation models can be validated by comparison of predictions with actual cable tension and head tension measured during a job. WEST provides displays that combine simulated and actual job data to allow direct comparison between the two sets of data. Job data can be imported in real time or post job.

Data is saved in a project file to provide a permanent job record for future reference. WEST provides a report in Portable Document Format (PDF). In highly deviated wells, the software predicts whether wireline tractor assistance is required. The depth to which the tools will free-fall under gravity is calculated as well as the tractor forces required to reach the target depth.



Typical WEST calculated data