

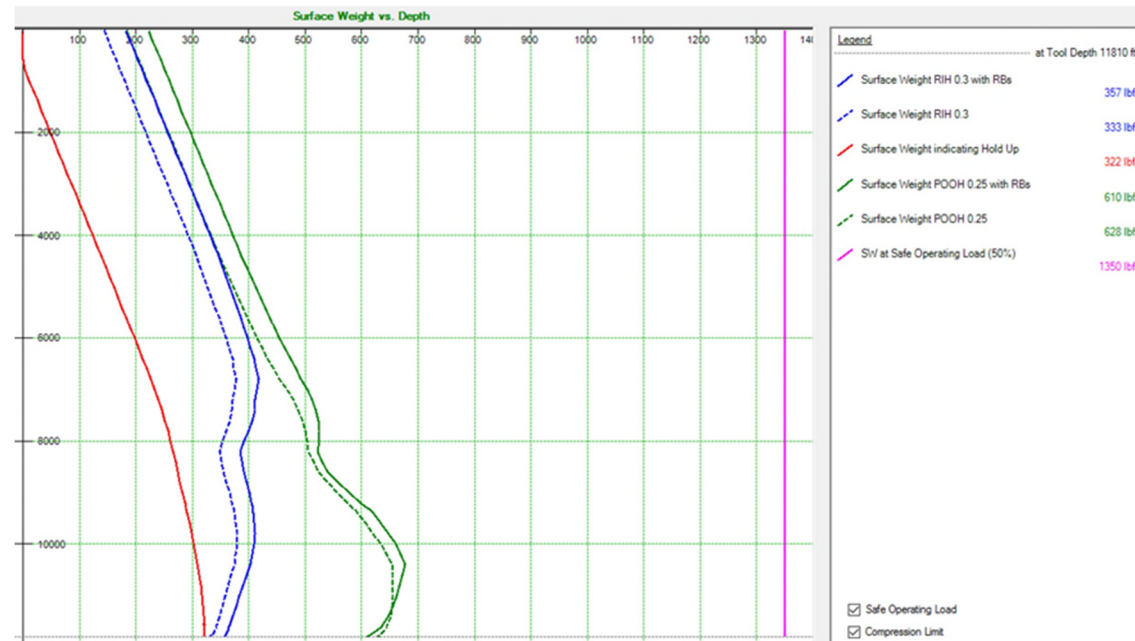


Pre-job Modelling Quantifies Risk Reduction

Cerberus™ is a well intervention modelling software developed by National Oilwell Varco’s CTES division. It is the market leading, commercially available model for Coiled Tubing, Wireline and Jointed Pipe simulations.

Given accurate information on the wireline, wellbore and tool string, the furthest achievable depth in any deviated well can be estimated to a high degree of accuracy.

Impact Selector has conducted in-house testing to measure the friction reduction capabilities of our Roller Bogie® tools when strategically placed within any wireline tool string. When the results of these tests are combined with the ability to reduce the resistive frictional forces of independent tools available within **Cerberus™** the output clearly demonstrates and quantifies the benefits of Roller Bogies®.



A Cerberus™ surface weight plot showing results for the same tool string with and without Roller Bogies®

As an integral part of Impact Selector’s Intelligent Conveyance® Solutions, pre-job modelling provides the service company and operator with insights into optimum tool string design, wire selection and other operation fundamentals.

The results of pre-job modelling such as ‘how much overpull will I have at my target depth’ can also be used in other Impact Selector products such as **Impact Pro**, which will calculate the best setting for an open or cased hole Jar to avoid accidental firing when pulling out of hole, but ensures the Jar does fire before maximum pull at surface is reached.





Where Advanced Technology and Responsive Service Come Together to Reduce the Risk

For over 2 decades, Impact Selector has served the upstream oil and gas markets with innovative products and services that enhance formation evaluation and well intervention activities. Impact Selector is committed to the success of our customers by combining operational experience, creative design, state-of-the-art manufacturing, and product testing facilities to provide *Intelligent Conveyance®* products and services worldwide to reduce costs and minimize risk.

Products

Open Hole Wireline

- MFT/MFT HPHT Multi-Conductor Jar
- MCX/MCX HPHT Multi-Conductor Jar
- SMART Jar™
- Wireline Stand Off
- Wireline Tool Stand Off
- Roller Bogie Hole Finder
- Bull Nose Roller Hole Finder
- Roller Bogie® Systems
- ImpactPro Prediction Analysis Software

Cased Hole E-Line

- XCS / XCS HPHT Jar
- Xcalibur Jar
- SMART Sens™ Tension Sub
- Low Friction Tubular Jar
- Roller Bogie® Systems
- Perforating Roller Bogie®
- Guide Roller Bogie®
- Orienting Perforating Tool

Cased Hole Slickline

- Blockbuster Jar
- Intensifier Jar
- Impact SL Jar
- Low Friction Tubular Jar
- Xcalibur Jar
- Roller Bogie® Systems
- Guide Roller Bogie®
- High Deviation Roller Bogie® Jar
- Low Loader Roller Bogie® Jar
- Advanced Kickover Tool
- Chemical Jetting Soak Tool
- Double Knuckle Joint
- Flapper Investigation Tool
- Flow Tube Exercising Tool
- Safety Valve Protection Sleeve

Services

Leasing and Rental of Wireline Tools

Consultation Services

- Operation, Customization, Maintenance and Repair

Research and Development

- Fast Track New Tool Development
- Turn-Key Engineering Design, Prototype Testing and Manufacturing
- Mechanical and Electrical Engineering
- Modeling Software

Support

24 hours a day/7 days a week

- Wellsite Operations
- Training
- Maintenance
- Technical

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