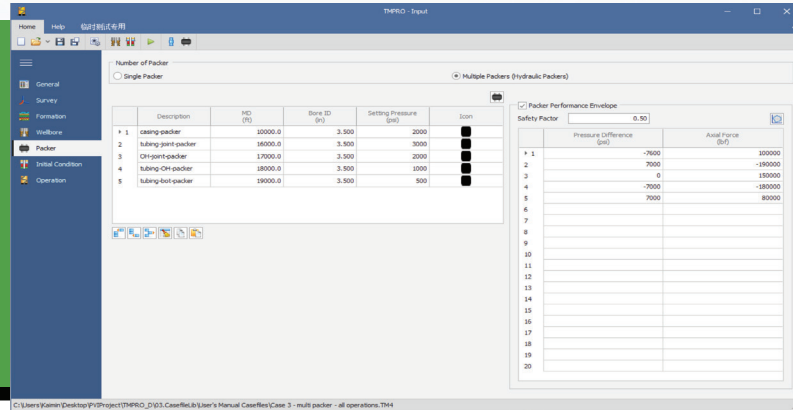


TMPRO

Tubing Movement & Integrity

Evaluate tubing and packer performance throughout operations



5 Packers with Packer Performance Envelopes

OVERVIEW

Many well completions and workovers occur through one or more tubing and packer systems. Changes in temperature and pressure inside or outside the tubing will either result in a tubing length change or induce force in the tubing and on the packer. In deep wells, conditions are even more critical, requiring proper engineering analysis to prevent tubing and packer failures.

Pegasus Vertex, now part of LINQX, has developed **TMPRO**, a software that performs calculations on length change to force distribution. It checks the tubing and packer integrity during various operations. Based on Lubinski and Hammerlindl theories, TMPRO is an easy-to-use tool to identify and avoid potential tubing/packer issues.

KEY BENEFITS

Cost Reduction

- By preventing equipment failures and optimizing operations, TMPRO can lead to significant cost savings.

Operational Efficiency

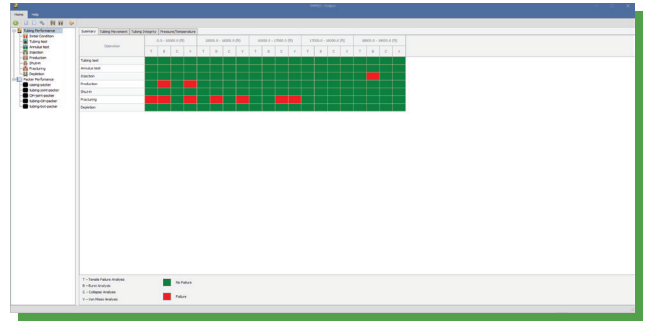
- The user-friendly interface allows for quick and efficient analysis, improving operational efficiency.

Enhanced Engineering Analysis

- Aids in conducting thorough engineering analyses, crucial for deep wells where conditions are more complex and demanding.

KEY FEATURES

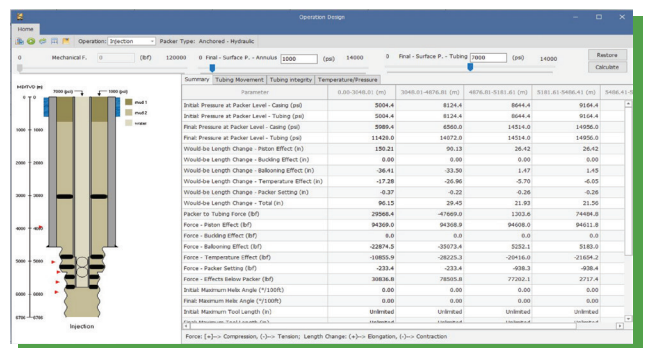
- Tubing movement evaluation for 7 types of operations
- Up to 20 operations can be simulated in one run
- Single or multiple packer analysis (up to 15 packers)
- Vertical or directional wells
- Packer movement: free motion, limited motion, or anchored
- Packer setting mechanisms: mechanically, hydraulically, or hydrostatically
- Operation design to optimize packer setting
- Both tubing and packer failure analysis
- Packer performance envelope
- Editable tubular and packer database
- Tubing movement: piston, buckling, ballooning, temperature, and packer setting effects
- Tubing integrity: tension, collapse, burst, tri-axial, and buckling
- Packer-to-tubing and packer-to-casing forces
- Fluid flow and frictional pressure loss in both tubing and annulus



Tubing Performance in Multiple Operations



Packer Performance in Multiple Operations



Operation Design

OPTIMIZE DESIGNS TO AVOID COSTLY INTERVENTIONS

Discover TMAPRO in Action—Schedule Your Demo Today

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