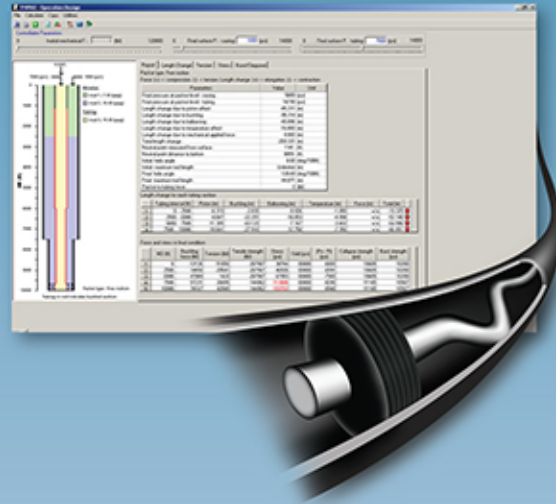


TMPRO

Tubing Movement



Most wells are completed and treated through a tubing and packer system. Changes in temperature and pressure inside or outside the tubing will either cause tubing length change (free motion condition), or induce force in the tubing and on the packer (limited motion or anchored condition). In deep wells, conditions become more critical and tubing and packer failures are more common.

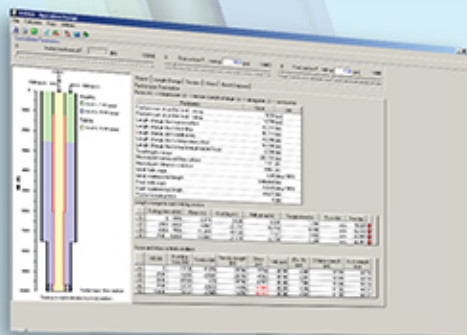
Pegasus Vertex, Inc. (PVI) has developed TMPRO, a software that performs length change to force distribution calculations and to check the tubing integrity for various conditions. Based on Lubinski and Hammerlindl's theories, TMPRO is an easy-to-use tool to avoid any tubing/packer issues.



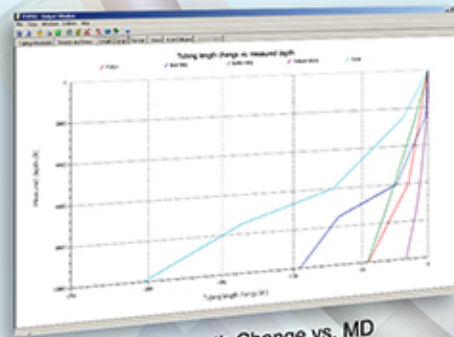
TMPRO – Tubing Movement



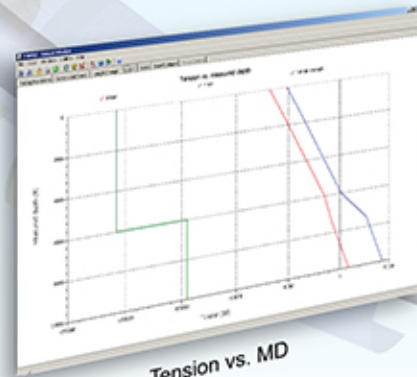
Tubing Movement



Operation Design



Tubing Length Change vs. MD



Tension vs. MD

Features

- Directional well
- 3 packer types: free, limited and anchored
- Piston, buckling, ballooning and temperature effects
- Pipe database
- Different tubing material
- Initial and final fluid configurations
- Tensile and stress strengths
- Burst and collapse strengths
- Operation design
- Microsoft Word® report
- US oil field, SI and customized units
- Multi-language: English, Spanish, Chinese, Russian and Portuguese

System Requirements

- Microsoft Windows® 10
- Microsoft Windows® 8/8.1
- Microsoft Windows® 7
- Microsoft Office® 2010 or later
- Pentium or AMD processor, 1 GHz or faster
- 2 GB RAM (4 GB recommended)
- 200 MB of free disk space for installation
- 1,280 x 768 display resolution with true color
- Install from download link or CD