# CentraDesign
Centralizer Placement Model

Overview

Casing centralization is one of the key elements to ensure the quality of a cementing job. It does so by preventing mud channeling and poor zonal isolation. While centralizers are used extensively, well problems continue to arise due to poor cementing jobs. The challenge that both operators and service companies face is to choose the right type of centralizers and place the correct amount of them in the optimum position on the casing to achieve a good standoff profile.

CentraDesign optimizes the centralizer placement, predicts casing standoff and torque and drag for ERD or deviated wellbores. It determines the number and placement of centralizers using one of the four modes: "specify spacing", "specify location", "specify standoff" and "optimum" for bow-spring, rigid, semi-rigid, and mold-on centralizers.

With extensive knowledge in engineering mechanics as well as extensive collaboration with centralizer vendors, Pegasus Vertex, Inc. provides both service companies and operators with the most sophisticated yet easy-to-use solutions to ensure the quality of a cementing job.

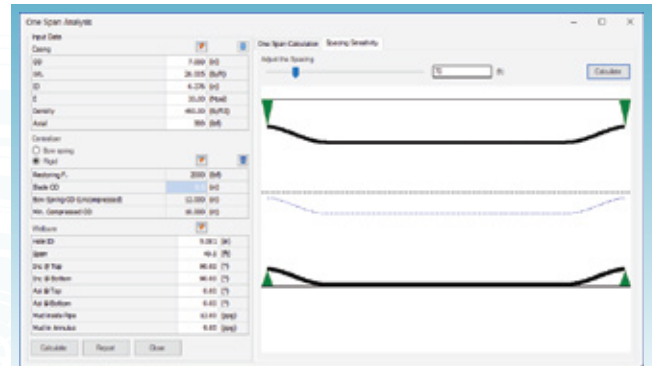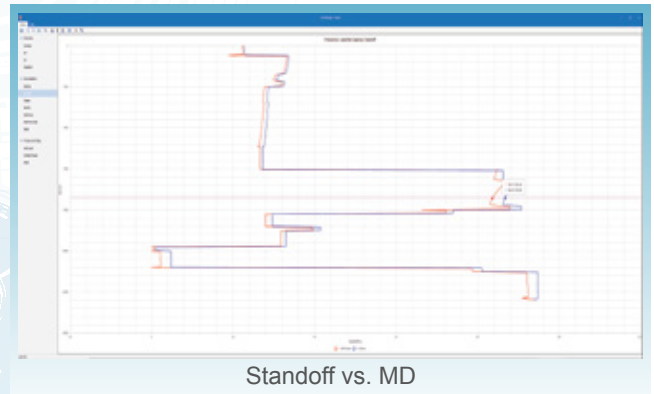# CentraDesign—Centralizer Placement Model
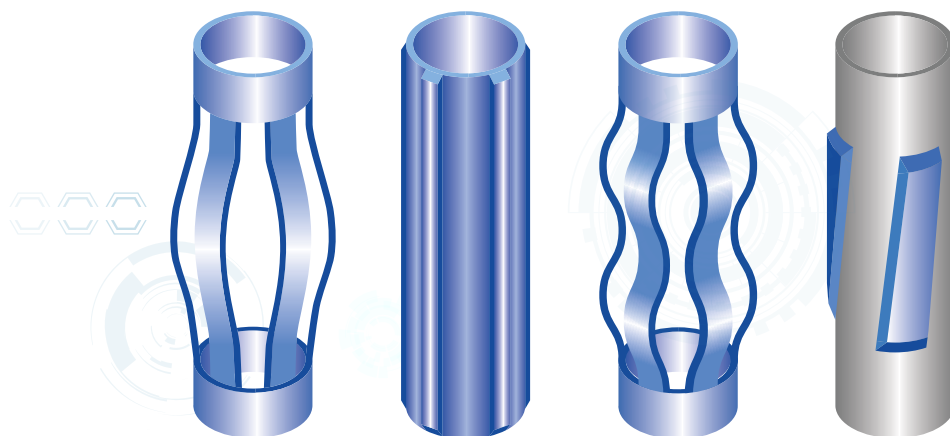
Features

- Survey import from Excel®, text or PDF® file
- Bow spring or rigid centralizers
- Tubular and centralizer database
- Standoff profile prediction
- Centralizers placement recommendation
- Sensitivity analysis on spacing
- Tripping animation
- Casing flotation
- Torque and drag calculation
- Running force change with a hole ID
- Centralizer washout sensitivity analysis
- Microsoft Word® and Excel® reports
- US oil field, SI, and customized units
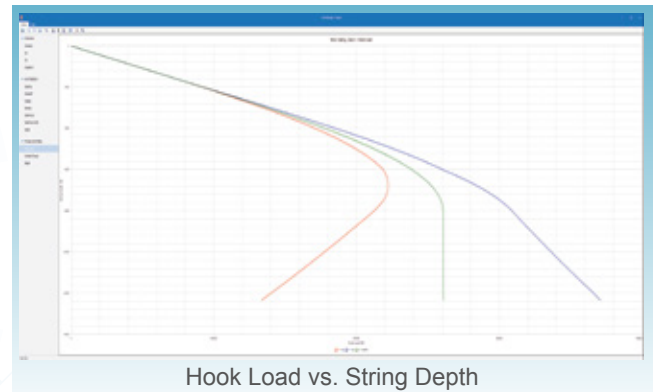- Multi-language: English, Spanish, Chinese, and Russian

System Requirements

- Microsoft Windows® 10 or above
- Microsoft Office® 2016 or above
- Dual-core Intel or AMD processor, 1.4 GHz or higher. Quad-core CPU recommended. Not compatible with ARM processor
- 4 GB RAM
- 200 MB of free disk space for installation
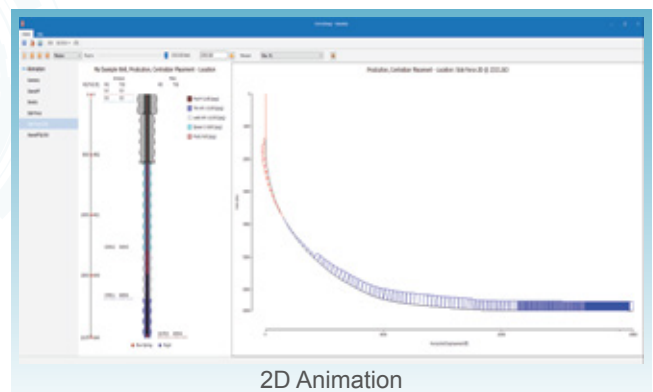- 1,280 x 768 display resolution

Spacing Sensitivity

Standoff vs. MD

Hook Load vs. String Depth

2D Animation

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