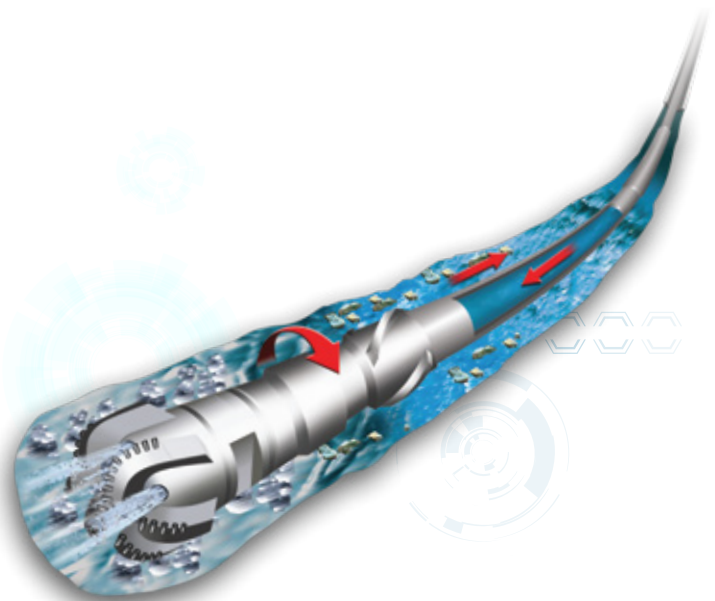# DEPRO®
Torque, Drag and Hydraulics Model

Overview

DEPRO is a comprehensive torque, drag and hydraulics program. Using this software, users can reduce many of the risks encountered in drilling and completion operations. DEPRO predicts the limits in the length of a horizontal well based on specific friction factors, recommends rig specifications, and evaluates the required weight to set a packer. For hydraulics, DEPRO covers downhole circulating pressures, surge and swab, equivalent circulation densities (ECD), bit optimization, hole cleaning, and volumetric displacements. Using DEPRO, downhole drilling hydraulic conditions can be fully examined and any potential problems can be identified prior to field execution.

If you are interested in both TADPRO and HYDPRO, DEPRO is the package for you. It combines all the essential parts of both software programs.
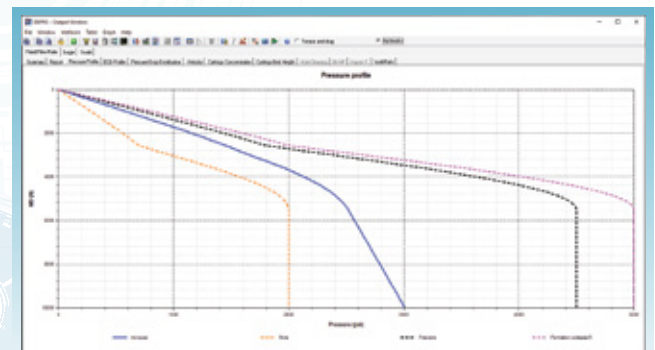
Features

- Torque, drag, and stress calculation
- Soft and stiff string models
- Drilling, back reaming, rotation off bottom, tripping in, and tripping out operations
- Sinusoidal and helical buckling prediction
- Field data comparison on hookload and surface torque
- Friction factor sensitivity analysis
- Packer setting analysis
- Casing flotation
- Swivel tool
- Oscillating vibration tool
- Torque and drag calculation on cementing job
- Hydraulics calculation: pressure, ECD, and hole cleaning
- Cuttings concentration
- Surge and swab hydraulics calculation
- Bit optimization
- Hydraulics sensitivity analysis
- Bingham plastic, power law, or Herschel Buckley model
- Field data comparison on ECD and SPP
- 2D/3D animation
- Graph customization
- Survey import from Excel®, text or PDF® files
- US oil field, SI, and customized units
- Microsoft Word® report
- Multi-language: English/Spanish/Chinese/Russian/Portuguese
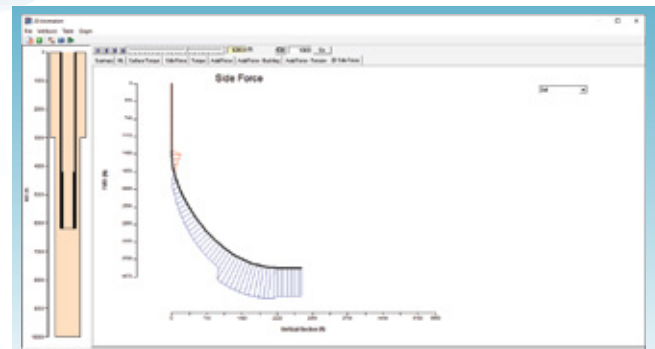
System Requirements

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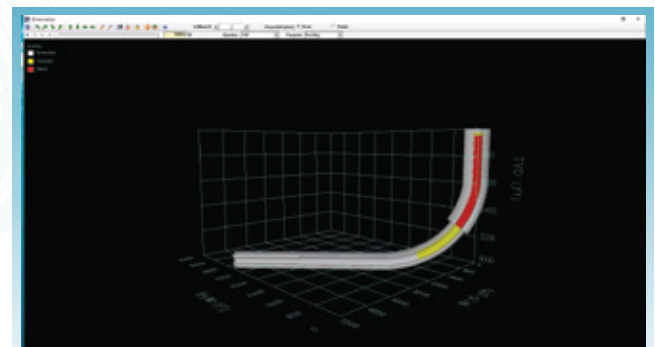- 200 MB of free disk space for installation
- 1,280 x 768 display resolution

Field Data Comparison

Pressure Profile

Side Force

3D Buckling Animation