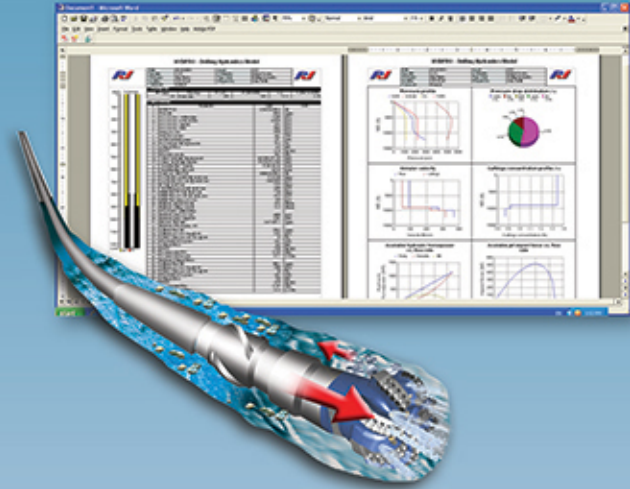
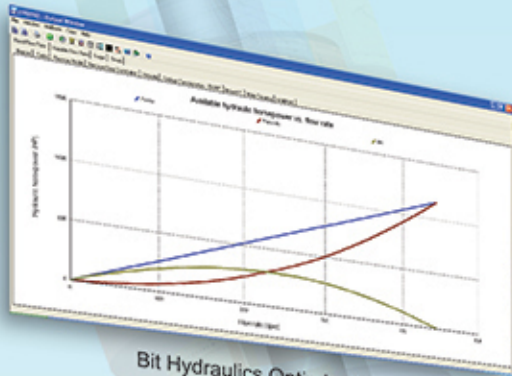


 **HYDPRO**
Drilling Hydraulics

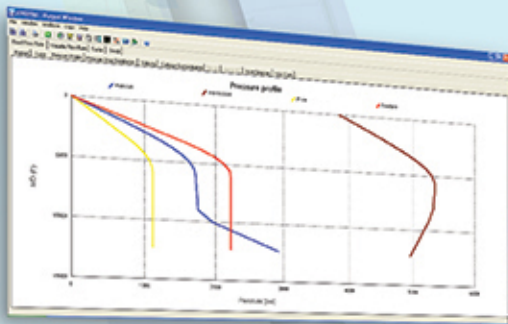


Whether you are drilling a vertical or extended-reach well, an equivalent circulating density (ECD) that is too low or too high can cause serious drilling problems or compromise your project's budget. A successful drilling operation relies heavily on achieving an optimal ECD. Accurate modeling and optimized drilling hydraulics is crucial. It allows engineers to plan ahead, thus improving drilling efficiencies, reducing risk, and decreasing non-productive time (NPT).

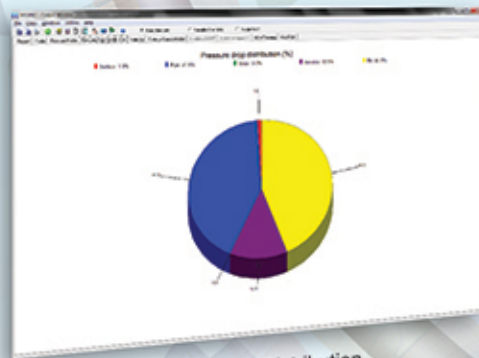
Pegasus Vertex Inc.'s (PVI) HYDPRO is a comprehensive drilling hydraulics model that covers all aspects of hydraulics, including downhole circulating pressures, surge and swab, ECD, bit optimization, hole cleaning, and volumetric displacements. With these features, downhole drilling hydraulic conditions can be fully examined and any potential problems can be identified prior to field execution.



Bit Hydraulics Optimization



Pressure Profile



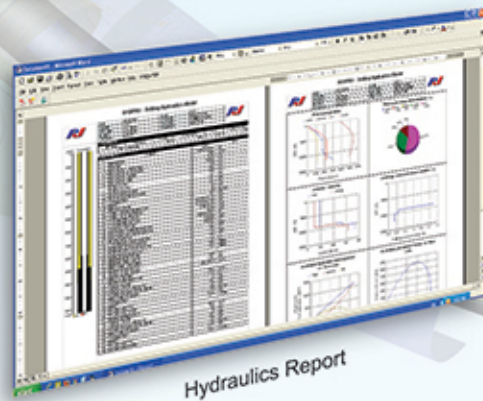
Pressure Drop Distribution

Features

- Land and offshore wells
- Bingham Plastic, Power Law and Herschel Buckley rheology models
- Fixed flow rate analysis
- Bit hydraulics optimization
- Surge and swab
- Hydraulics sensitivity analysis
- Field data comparison
- Cuttings concentration
- Flow pattern visualization
- Graph customization
- Graph formatting options
- 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



Hydraulics Report