Geomechanics Evaluations in IP

Assure your well stability and maximise production lifetime

While our Basic or Platform IP licenses cover a comprehensive petrophysical workflow, by adding on the Geomechanics bundle of advanced modules, you can take your interpretations to a whole new level.

Calculate reservoir rock strengths and wellbore stresses from proven models. Save your well from rock-face failures and analyse for potential sand production. Predict pore pressure and calculate mud weight to optimise drilling speed.

IP Geomechanics arms you with the best possible interpretation and knowledge. That allows you to make confident, informed drilling and production decisions – and realise your well's full potential safely.

IP Geomechanics includes tools to evaluate wellbore stability, and pore prediction along with sand failure and fracture analysis.

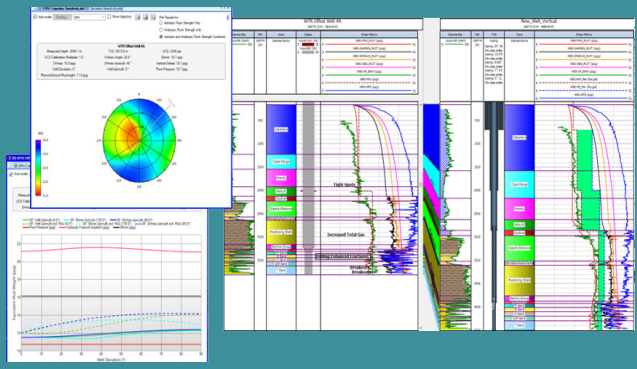
"All subsurface activities should include an element of geomechanical evaluation. IP's Geomechanics tools provides you with easy and intuitive workflows to analyse pore pressure, wellbore stability, sand failure and fractures, and have the analyses seamlessly integrated with other necessary workflows."

Frans Mulders
Geomechanics Product Champion

Geoactive

Wellbore Stability
Create a geomechanical model within Wellbore Stability and save your well from rock-face failures. Take the guesswork out of mud weight prediction for stable, safe drilling. Define the shear failure gradient using Mohr Coulomb, Modified Lade and Hoek-Brown and calculate the fracture gradient to determine the safe mud window.

Increase your confidence in successful drilling using Monte Carlo analysis, and accounting for rock strength anisotropy.

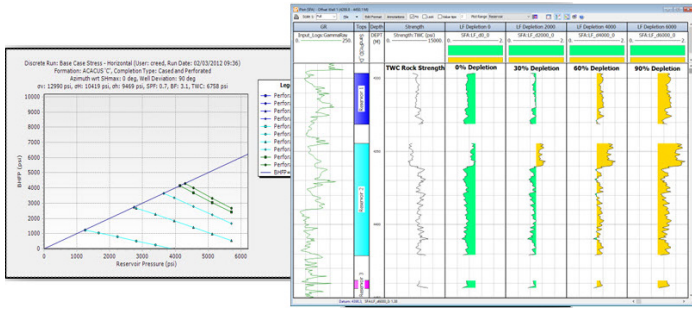


Covering one well or an entire field, Wellbore Stability makes it swift and easy to calibrate against offset wells and apply your model to any new project. You are able to analyse pore pressue trends and visualse the predicted stresses down your wellbore. You can also see whether your fractures are critically stressed or not.

Interactive **Petrophysics**

SandPit 3D

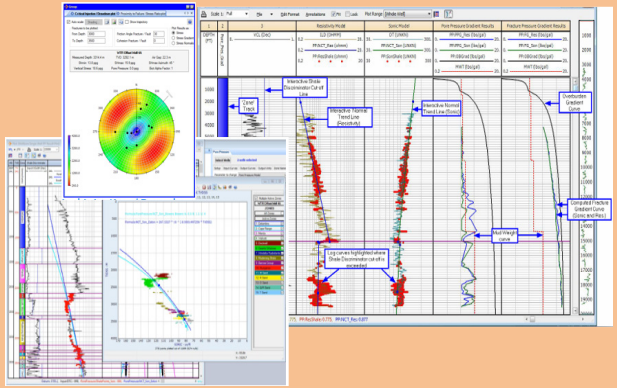
Minimise the risk of costly formation failure and sand production with SandPit 3D. By calculating stress on the walls of a perforation tunnel or wellbore and comparing it to rock strength, you can forecast well conditions likely to cause sand failure. Forewarned, you can maximise productivity with safe drawdown pressures and optimum perforation patterns.



Multi Well Pore Pressure Prediction

Calculate the subsurface pressures your drilling programme will experience to avoid abrupt changes and ensure wellbore stability. Pore Pressure Prediction models overburden, pore and fracture pressures based on conventional log curves, drilling information and seismic data.

Determine overpressures using the Eaton or Bowers method. Develop your interactive for multiple wells simultaneously. Put Pore Pressure Prediction to work as a pre-spud predictive tool or in real-time while drilling.



Get in touch

Geoactive

Please visit www.geoactive.com
for more information
Email IPsupport@geoactive.com
Or call
USA: +1 713 489 3995
UK: +44 203 608 8024

Geoactive Limited.
Aberdeenshire
United Kingdom

IP_Flyer_Geomechanics_V1.1.pdf

Updated: 8.October.2022

Interactive Petrophysics