Reservoir Characterisation in IP

Build detailed reservoir understanding for production optimisation.

Our IP Reservoir bundle offers every imaginable feature for pin-sharp reservoir understanding, potential quantification and production optimisation.

Create saturation height models from core and logs and predict facies. Qualify porosity and permeability with Hydraulic Flow Units. Organise and analyse all your Formation Testing data.

With the Production Logging suite, you only need one module to organise, edit and analyse all your PL data. Take advantage of IP's end-to-end integration to combine PL and wireline data to refine both open and cased hole interpretations.

"Different disciplines of the sub-surface community often work in 'silos', but insights and productivity gains can be found when we work more collaboratively. Rock Classification and Saturation Height Functions are so inter-linked that working in one interactive package can be much more effective than passing it back and forth."

PAUL SPOONER
IP PRODUCT CHAMPION

Saturation Height Modelling

Reduce uncertainty in your petrophysical model by analysing, QC-ing and correcting capillary pressure data the easy way. Apply industry-standard or your own custom fitting functions to quickly build a robust water saturation model from SCAL Pc data in offset wells.
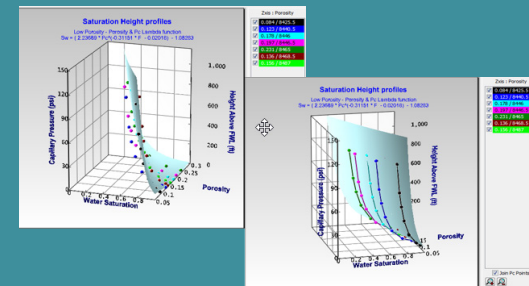
Integrate and visualise multiple Saturation height functions in 2D or 3D for better understanding and fit and apply functions per facies or flow unit while also being able to link free-water levels across multiple wells.

Production Logging

Calculate downhole production rates including cumulative and zonal contributions of each reservoir zone. Standard workflow for conventional PL data in vertical or slightly deviated wells. Advanced workflow for PL array tools calculating multi-phase flow profiles in highly deviated or horizontal wells. Includes specific workflows for both MAPS and FSI array tools.

Geoactive

Interactive **Petrophysics**
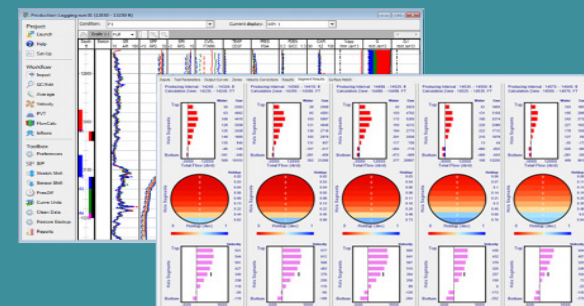
Hydraulic Flow Units

Classify reservoir rock into hydraulic flow grades with Hydraulic Flow Units (HFU). HFU bases its flow models on log and core data from single or multiple wells, relating permeability and porosity to production flow potential.

You can apply the HFU model as an input to IP's statistical modules for nearby wells and define a continuous flow unit curve across the full data interval of the target well. Taking advantage of popular industry standards, HFU unlocks a powerful application for all core data across any field.
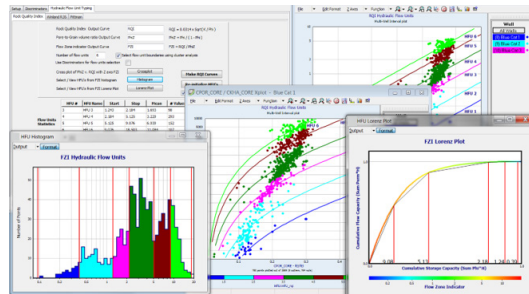
Classify porosity and permeability data into distinct hydraulic flow units. Classification can be carried out using Winland R35, Pitmann, Rock Quality Index and Lucia Rock Class.

Formation Testing

Organise, display, analyse and interpret your pressure test data – all in a single module. Formation Testing works with all pressure test types made with different suppliers' downhole tools to QC and produce an easy to digest and comprehensive formation test report.

Visualise a graphic representation of drawdown and build-up analyses for every pressure test to derive a final formation pressure. By looking at all the tests from each tool setting you can gain a much better understanding of the data quality, as they can be affected by supercharging or leaking, and improve the reliability of the results
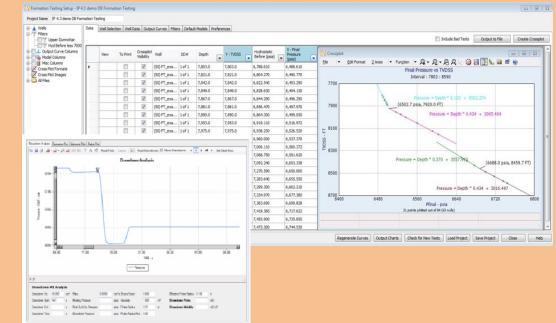
Get in touch

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

Geoactive

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