Formation Evaluation in IP

Build deterministic and probabilistic petrophysical analysis

While our Basic IP licenses covers a comprehensive, deterministic petrophysical workflow, by adding on the Formation Evaluation bundle of advanced modules, you can take your interpretations to a whole new level.

Our IP Formation Evaluation range of modules offers robust and sophisticated petrophysical calculations for both deterministic and probabilistic analysis. Fill in missing data. Pinpoint mineral composition. Classify facies, then apply Monte Carlo analysis to quantify your confidence in your interpretation.

The Formation Evaluation bundle includes Mineral Solver, Monte Carlo Analysis, Rock Typing and Curve Prediction.

This essential bundle provides a broad and in-depth toolbox for advanced formation evaluation of conventional and unconventional reservoirs.

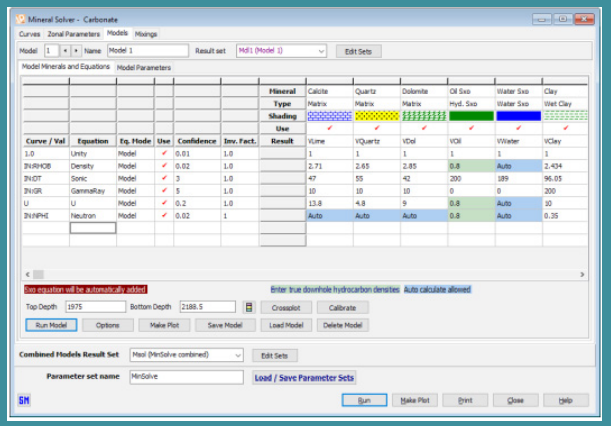
"Not only do you need software that you can trust but it also needs to handle an incredible range of geology and data variability.

Anybody who knows me is aware that I'm likely to answer a how-to question with "it depends", and that is why our workflows are so flexible, because they have to be."

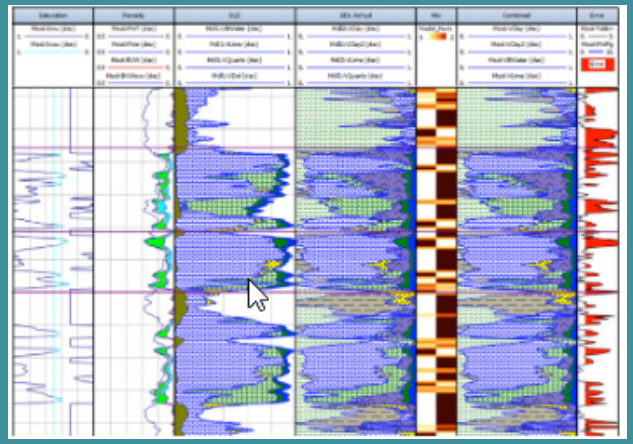
PAUL SPOONER
IP PRODUCT CHAMPION

Geoactive

Mineral Solver
Mineral Solver is the premier tool for non-deterministic assessment. Integrate all of your wellbore logs and core data into one solution for lithology, porosity and saturation.



Handle carbonate wells with complex diagenetic histories, mixed-clay wells or even heavy-mineral effects in sandstones.

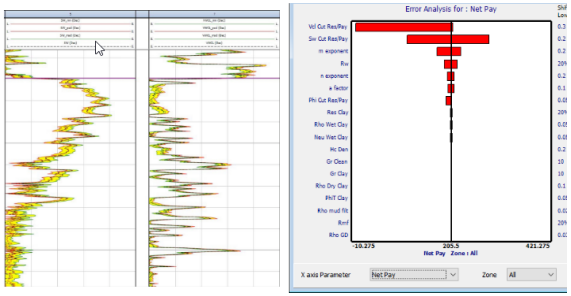


Understand unconventional reservoirs and include any mineral in your rock model to truly understand downhole lithology.

Interactive
Petrophysics

Monte Carlo

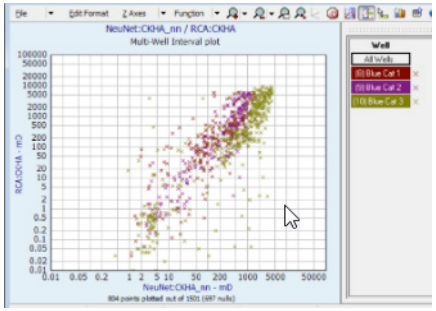
Petrophysical workflows can be deeply complex, using hundreds of inputs. Variance in any one of them affects the Net-to-Gross. Our true Monte Carlo Analysis module cuts through the complexity, isolating the key curves and parameters affecting your bottom line to help you build a defensible and robust interpretation.



This is a proven technique for finding the input sensitivities in any multivariate system while it can quantitatively show interpretation error to accurately inform risk assessments and feed best/ worst case scenarios.

Curve Prediction

Applicable at any stage of a well's life, Curve Prediction enables advanced interpretations from minimal source information. Employing several statistical methods, these tools help you to generate new curves from offset wells, repair existing data, or even make continuous curves from discrete data.



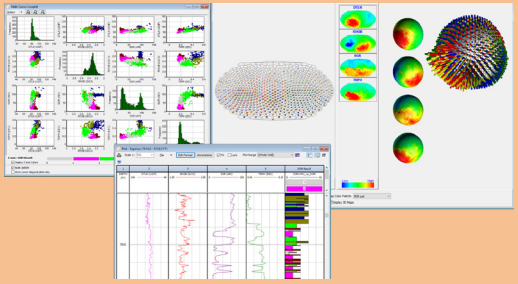
Predict key reservoir properties including porosity, permeability and saturation from log curves and core data and infer missing data or repair incomplete well data from bad hole intervals.

Analyse core or raw log data to cluster, zone and focus on the best approach to lithology, porosity and saturation using these Rock Typing Module toolkits:

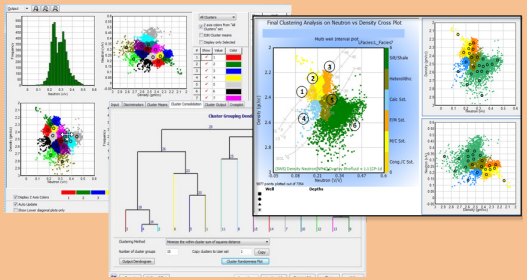
Rapid and easy to learn, Rock Typing employs powerful algorithms to deliver repeatable and accurate facies classifications.

With both Self-Organising Map and Cluster Analysis capabilities, you can analyse core or raw log data to cluster, zone and focus on the best approach to lithology, porosity and saturation.

Build and apply a facies model to any number of wells and use cross-plots and starplots to graphically show how key input parameters affect facies selection.
Compare any Rock Typing models in Contingency Table, including core data and manual picks



Self Organising Maps



Cluster Analysis

Get in touch

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