



ROCKINSIGHT

PERFORM WITH **AIQ**

THE CHALLENGE

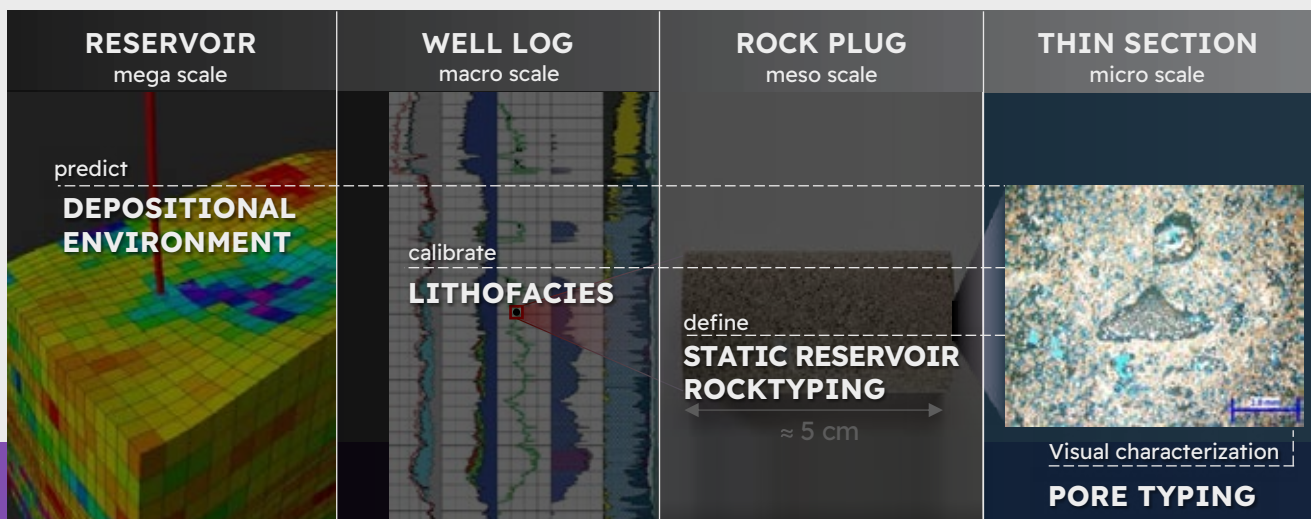


WHY THIN SECTION ANALYSIS MATTERS

To develop a field and maintain field production, it is necessary to take into account factors such as porosity, secondary processes, and mineral sedimentary environment

In carbonate fields, 10-25%, and sometimes even up to 50% of oil can be captured in micropores.

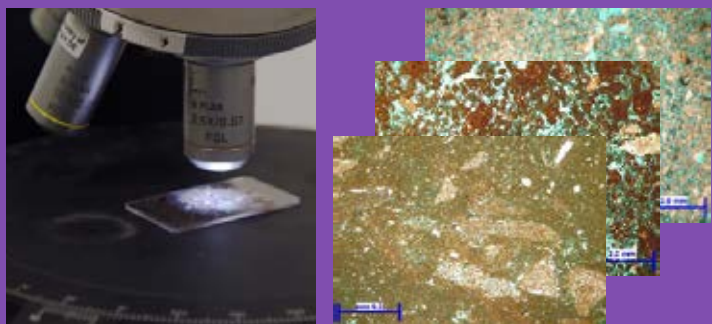
Thin section analysis provides crucial information for field development-strategy optimization such as sedimentological conditions, and linking visual inspection of pore architecture with reservoir architecture.



Current solutions such as manual or semi-automated interpretation offer limited integration with additional reservoir data and analytics workflows.

Thin section analysis is time-consuming and costly, and results are dependent on the specialist's experience rather than an objective and precise computation and visualization. This has significant implications on the decisions taken post-analysis.

The results obtained from different laboratories need to be consistent, with a common view, classification and typification, in order for results to be used in further petrophysical analysis, and construction of geological models.

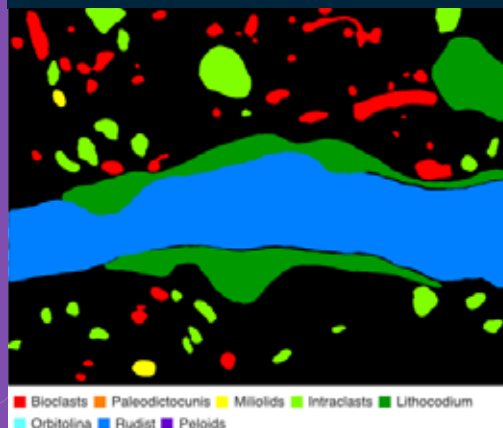




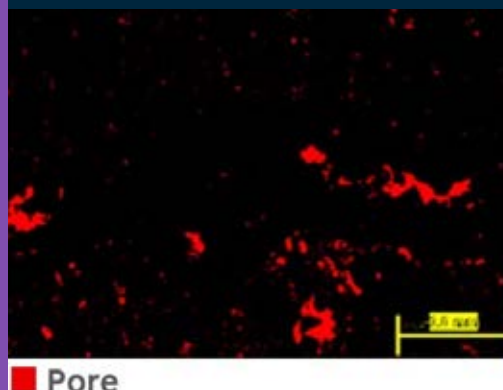
AIQ

These results, which are based on information obtained from microscopic analysis and analyzed by AI algorithms featuring deep extract knowledge, allow insightful and objective decisions to be made regarding geology and uncertainties.

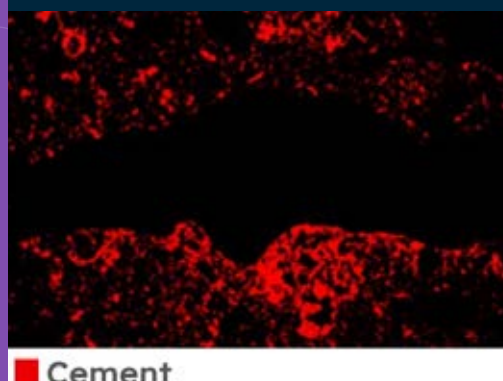
FRAMEWORK GRAIN



PORE



CEMENT



THE SOLUTION

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100 AIQ 100
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FAST RESULTS

Seconds instead of days, weeks and even months



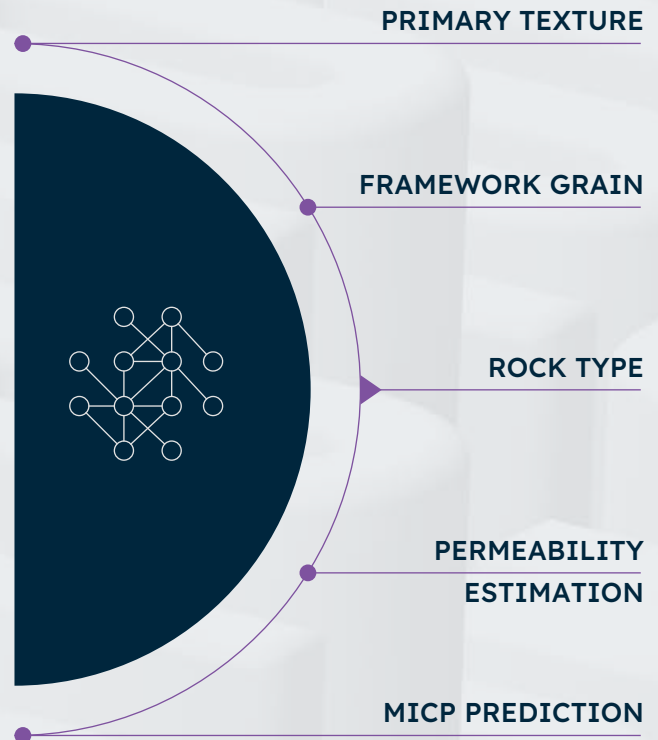
RELIABLE RESULTS

AI algorithms extract knowledge of different experts and makes a final decision under all geological uncertainties



HIGH PRECISION

Estimated Permeability and Predicted MICP



ADVANTAGES OF ROCKINSIGHT

HISTORICAL CONVERGENCE

Unprecedented interplay between information technologies:



Artificial Intelligence
Algorithmic Maturity



Big Data and
IoT availability



High-Performance
Elastic-Cloud Computing
Capabilities

UNRIVALED MARKET POSITIONING

Only ROCKINSIGHT provides the combined offer:



Fully commercial
product



Fully automated thin
section interpretation



Provides multi-scale and
multidisciplinary reservoir
insights from single image

VALUE & BENEFITS



ROCKINSIGHT

PERFORM WITH **AIQ**



Provides high-precision, consistent, and reproducible results in seconds, visualizing every subsurface grain and pore in detail to produce 3D geological modeling resources.



REDUCE OPEX COSTS

OPEX cost reduction through the speeding up of the decision-making time-cycle, and accuracy of petrographic and other thin section analysis



KNOWLEDGE PRESERVATION

Expert knowledge preservation & technical staff shortage mitigation. OPEX cost reduction from laboratory service providers



NON-BIASED ANALYSIS

Consistent non-biased analysis, which is independent of subjective human interpretation



IMPROVEMENT

Improvement of subsurface data integration and Value of Information



DISCLAIMER

This booklet contains numerical data that has been sourced from our esteemed clients. It is important to note that these figures are provided in the context of their respective business operations and have been shared with us for the purpose of this booklet.

Please be aware that client-sourced data can be subject to various factors that may influence its interpretation.

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