CAYROS has developed the expertise to help E&P companies better understand their reservoirs, make better decisions faster, and implement customized, innovative workflows combined with an extraordinary set of sophisticated tools and technologies for cost-effective formation evaluation and advanced petrophysical services.

Depending on the complexity of the reservoirs and final goals of our clients, we customize our workflow to your needs. Whether it’s applying deterministic and probabilistic techniques in complex mineralogy shaly sands, carbonates, tight reservoirs, shale gas, shale oil, CBM, fractured reservoirs or something else, we have the experience you need to succeed.

Our approach is to integrate all available data to meet our clients’ specific technical and business needs.

**Rock typing**

By integrating sedimentological studies, core and drilling cutting measurements and descriptions with log data, we can define rock types and petrofacies that allow us to better predict permeability and other properties. We correlate the results to seismic facies and populate geocellular models with petrofacies-specific permeability and saturation-height models.

**Permeability modeling**

We can predict permeability by implementing state-of-the-art interpretation techniques and algorithms in clastic and carbonate reservoirs.

We characterize secondary porosity and permeability in naturally fractured reservoirs.
**Advanced Petrophysical Services**

**Customized Workflows**

Depending on the project objectives, available data, type of reservoirs and other criteria, we offer customized workflows in conventional and unconventional reservoirs to meet and exceed our clients’ expectations.

We help our clients design the correct project and workflow for their assets, and we firmly understand that integrating and honoring all the available data and disciplines is critical.

**Core analysis and integration**

We are experts in validating, correcting and integrating core analysis data. This is critical, because in many reservoirs (especially unconventional ones) complex mineralogy and organic content results in variable matrix density, which can compromise log porosity estimates. In addition, matrix permeability calculations, log-based rock mechanical properties, and hydrocarbon saturation calculations can be highly inaccurate unless calibrated with core data.

**Integrated Flow Characterization**

We create integrated three-dimensional models that can be used to estimate in-place-hydrocarbon volumes, understand and predict reservoir performance and optimize field development.

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