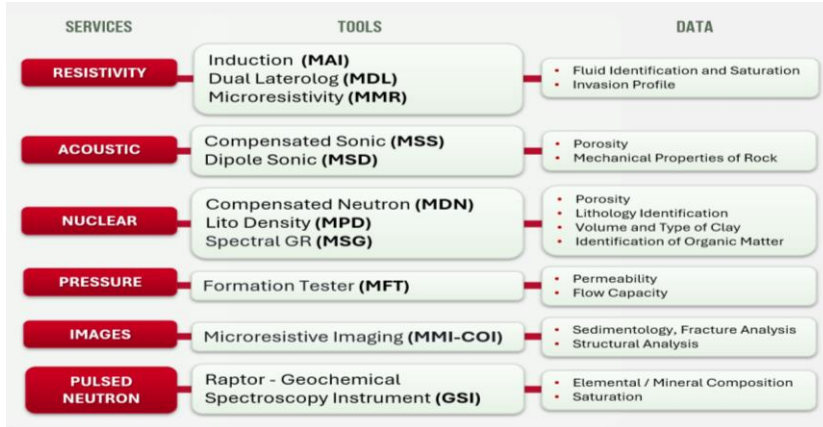


Compact™ Shuttle Logging Technology Boosts Petrophysical Modeling of Lithium Reservoirs



Weatherford Compact Shuttle Logging Technology enables petrophysical data collection in remote lithium mining locations.

Objectives

- Collect petrophysical information about formations that contain lithium brine and develop a petrophysical model of the resource.

Our Approach

- Remote lithium mining operations in Salta, Argentina presented difficulties transporting logging equipment capable of acquiring wireline-quality formation evaluation information.
- Weatherford Compact shuttle logging tools, measuring just 2-1/4 in. (57 mm) in diameter and small enough to fit in a suitcase, enabled easy transport to remote locations. The tools were deployed without wireline by running in memory mode on drillpipe, allowing efficient acquisition of formation evaluation data essential for building an accurate petrophysical model of the lithium resource.
- Combined density-neutron (triple-combo and spectral gamma ray) logs were used in acquiring better porosity estimation.
- Weatherford's interpretation and evaluation experts conducted detailed analysis of the acquired data, enhancing reservoir understanding and model accuracy. To further refine the petrophysical model, they recommended additional logging runs: sonic and microresistivity logs to improve porosity resolution; dipole sonic logs to support drilling optimization and mitigate operational risks; and microresistivity imaging to reduce geological uncertainty and enhance structural interpretation.

Value to Customer

- Weatherford Compact shuttle logging technology and experts empower lithium operators with critical data to build accurate mineralogical models and optimize reservoir development and production.

LOCATION

Salta, Argentina

WELL TYPE

Lithium Exploration Wells

DEPTH

100 to 500 m (328 to 1,640 ft)

PRODUCTS/SERVICES

New Energy Solutions

[Compact Shuttle Logging Technology](#)

[Wireline](#)

[Interpretation & Evaluation Services \(IES\)](#)

