Compact™ Array Induction, Gamma Ray Tools

Successfully Log Multiple Wells Through Fiberglass Casing, Resolve Earlier Data Uncertainty

Objectives

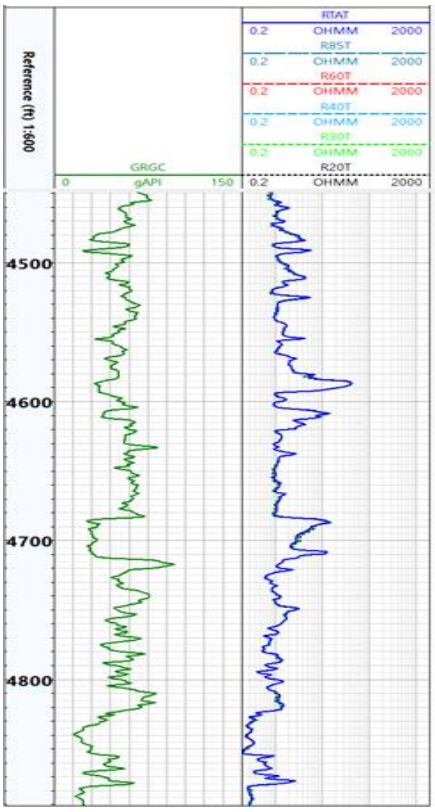
- Acquire induction resistivity data through fiberglass casing in three wells to monitor and determine the current oil-water contacts.

Our Approach

- After collaboration with the operator about the project, Weatherford personnel deployed the induction resistivity-gamma ray tool (MAI-GR) for the evaluation of all the three wells.
- The induction tool measured the changes in formation resistivity while the gamma ray measurements aided in formation correlation.

Value to Customer

- The data acquired by Weatherford showed a strong correlation with previously recorded openhole data.
- The operator successfully achieved time-lapse monitoring of the current oil-water contact across the three wells.
- Data uncertainty caused by erratic readings in the competitor's earlier logs were resolved following the Weatherford logging operations.



Gamma ray-resistivity log acquired through fiberglass casing.

LOCATION
Kuwait

WELL TYPE
Observation

FORMATION
Clastic

HOLE SIZE
6-5/8 in., fiberglass

DEPTH
4,920 ft (1,499 m)

PRODUCTS/SERVICES
- Compact array induction (MAI) tool
- Compact gamma ray (MCG) tool
- Wireline services

Weatherford®