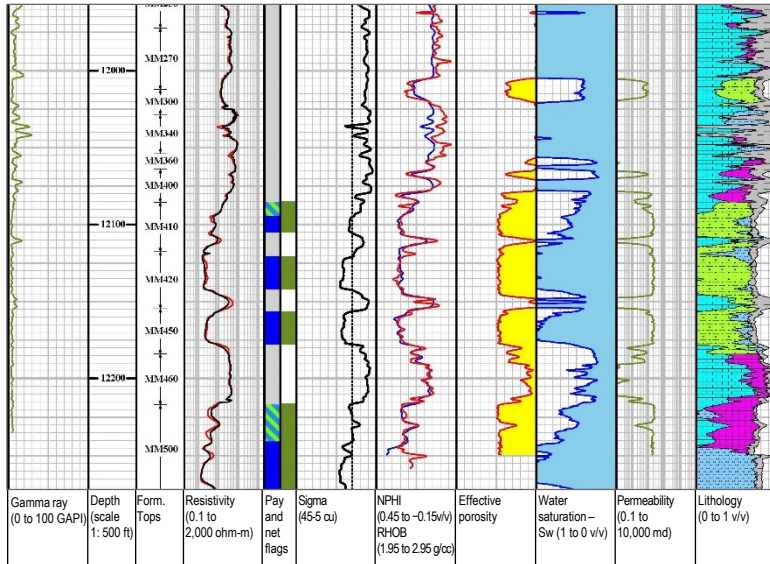


# Compact™ C-Thru, Interpretation Services

## Help to Identify Perforation Zones, Reduce Water Cut, and Achieve Production of 1,300 BOPD



The above log shows a portion of the petrophysical interpretation and integration done from openhole data (resistivity and sigma) recorded before and cased-hole data acquired using the C-Thru service and Compact logging tools. In the fifth track from the left, the green and blue shading indicate the sweep and water zones, respectively.

**LOCATION**  
Middle East

**WELL TYPE**  
Onshore, oil

**FORMATION AND TYPE**  
Marrat, carbonates

**LINER SIZE**  
3-1/2 in.

**ANGLE**  
47°

**DOGLEG SEVERITY**  
6°

### PRODUCTS/SERVICES

- Wireline services
- Compact logging tools
  - Gamma ray (MCG) tool
  - Dual neutron (MDN) tool
  - Photodensity (MPD) tool
  - Sonic sonde (MSS) tool
- Interpretation and Evaluation Services

### Objectives

- Perform a petrophysical evaluation to help identify water zones for isolation and to select perforation intervals in an onshore oil well with a 47° deviation. Previously, the well had produced 2,100 BFPD (334 m<sup>3</sup>/d fluid) with 98% water cut, which led to shutting in the well.

### Our Approach

- The Weatherford Interpretation and Evaluation Services team recommended a cased-hole solution to determine the presence of oil and water in the formation. The solution included the Compact C-Thru service, which uses e-line coiled tubing to convey Compact logging tools.
- A Weatherford crew deployed the logging tools to acquire high-quality gamma ray, neutron, density, and sonic data in a single run.
- Together with the customer, the team interpreted the logging data and determined the presence of oil and water across all logged zones.

### Value to Customer

- Along with the expertise of Interpretation and Evaluation Services, the cased-hole data from the C-Thru service enabled the operator to take a well from almost zero production to 1,300 BOPD (207 m<sup>3</sup>/d oil). Combining data with expertise helped to identify oil and water zones for isolation and to choose which zones to perforate and produce for increased production.

