Compact™ Well Shuttle Facilitates Single-Trip Logging in Unstable Fishbone Well with 95° Incline

Objective

- Obtain high-quality data and comprehensive formation evaluation in a highly inclined, unstable fishbone well. The high incline of the well precluded the use of conventional wireline and logging-while-drilling (LWD) techniques.

Our Approach

- The team used the Weatherford indexing muleshoe to enable mud circulation and pipe rotation without wireline while running in the hole.
- The Weatherford wireline services team rigged up the Compact™ well shuttle messenger system (CWS) to convey Compact through-tubing logging tools through the drillpipe, which fully protected them from the borehole environment.
- After the CWS landed at depth, the team deployed the Compact logging tools, which included the Compact gamma ray (MCG), Compact sonic sonde (MSS), and the Compact dual laterolog (MDL) tools.
- The fishbone well required a high-quality caliper to ascertain the borehole geometry in detail. The team conveyed the Compact borehole geometry (CBG) tool through the CWS.
- The team tripped the drillpipe out of the hole after the Compact tools acquired the high-quality data in one run.

Value to Customer

- The Compact tools delivered high-quality gamma ray, geometry, resistivity, and sonic data in an unstable and highly deviated well without well control issues.

LOCATION
Middle East

WELL TYPE
Onshore, oil producer

INCLINATION
95°

CASING SHOE
4,683 ft (1,427 m)

BIT SIZE
8.5 in. (216 mm)

WELL DEPTH
6,200 ft (1,889 m)

BOTTOMHOLE TEMPERATURE
150°F (66°C)

PRODUCTS/SERVICES
- Wireline services
- Compact well shuttle messenger system (CWS)
- Compact gamma ray (MCG)
- Compact sonic sonde (MSS)
- Compact dual laterolog (MDL) tool
- Compact borehole geometry (CBG) tool
- Indexing muleshoe

The Compact well shuttle messenger system (CWS) conveyed Compact logging tools inside the drillpipe.

Weatherford®