



Weatherford®

REAL RESULTS

Revolution® Rotary-Steerable Service with Triple-Combo LWD Tool Successfully Drills Lateral within Narrow Target Zone

Objectives

- Geosteer a well to drill a 5,000-ft (1,524-m) lateral section within a 5-ft (1.5-m) target.

Results

- Weatherford used the *Revolution* rotary-steerable service, with its triple-combo logging-while-drilling (LWD) tool, and the MFR™ multifrequency resistivity sensor for the project.
- The well was drilled entirely within the 5-ft (1.5-m) target zone with the exception of two faults that required a brief deviation from the well path. Only 130 ft (40 m) and 106 ft (49 m) had to be drilled before regaining the target zone.
 - Weatherford's swift reaction to unforeseen formation changes, resulting in small but frequent angle changes, kept dogleg severity low—generally just 1° to 2°/100 ft (30 m).

Value to Client

- Use of the *Revolution* service provided a precise and smooth drilling operation, enabling the client to successfully complete the well.



The *Revolution* rotary-steerable system uses point-the-bit technology to increase well value by providing superior wellbore quality and accurate wellbore placement while minimizing drilling risks. Unlike conventional push-the-bit systems, the *Revolution* system keeps the drill-bit face square to the rock and to the axis of the planned well path.

Location

Middle East

Well Type

Horizontal injector

Hole Size

6 in.

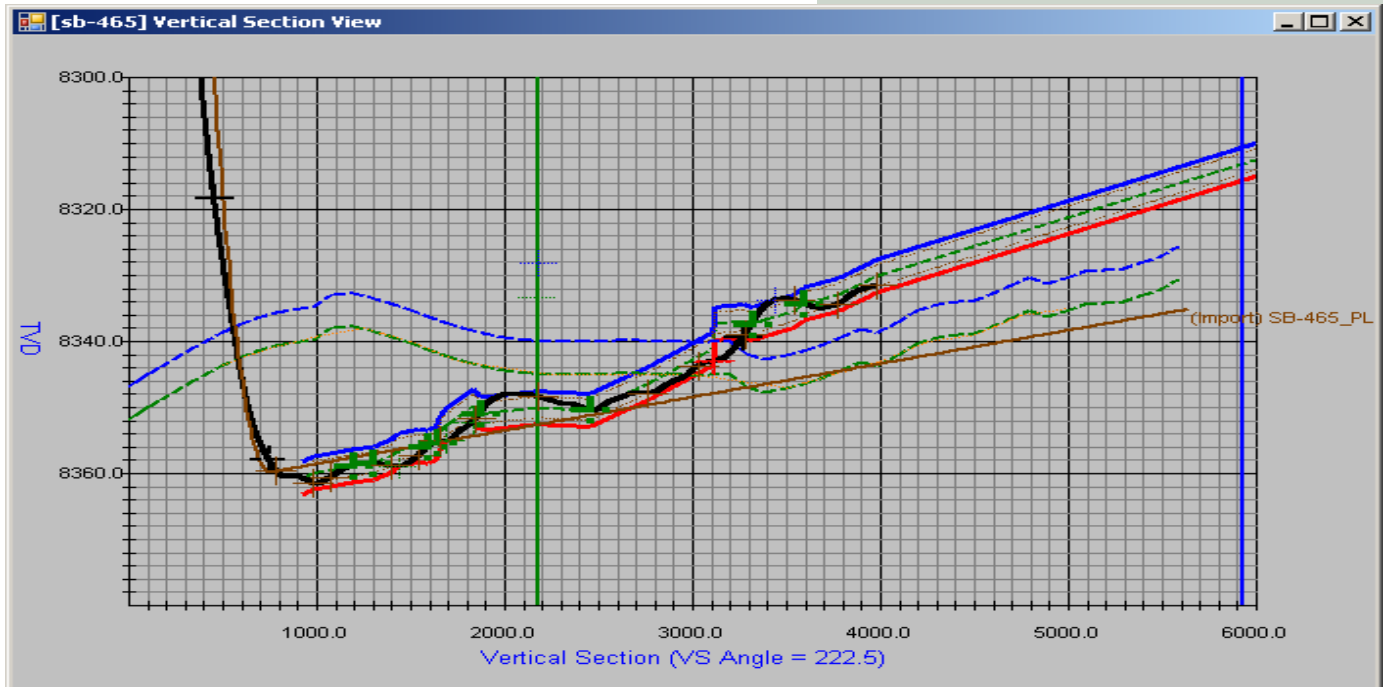
Products/Services

- Geosteering and well placement
- *Revolution* rotary-steerable service
- Triple-combo LWD tools
- MFR sensor



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Weatherford's geosteering strategy, based on the ultra-deep measurements provided by the MFR™ multifrequency resistivity sensor, worked well, particularly in the lower half of the 5-ft (1.5-m) target zone.