

# **REAL RESULTS**

Weatherford Collaborative Liner System and Cementing Product Services Enable Client to Test Production Zone

### **Objectives**

- · Efficiently reach total depth and cement the liner.
- Form a reliable seal between the liner OD and the host-casing ID that enables client to test the production zone.

#### Results

- The 6- x 7-in. open hole was partially reamed to prepare the wellbore for a 5-in. liner installation.
- Weatherford provided a liner comprised of a WPBR tieback, SwageSet packer, WPHR hanger, and WLCS landing collar. The liner was run to a programmed depth of 12,766 ft (3891 m) and rotated at 10 rmp with good mud returns.
- An Mk5 SWP plug with integral ball seat was used to maintain fluid separation and provide a pressure-tight chamber to hydraulically set the liner hanger at a depth of 10,928 ft (3331 m). The running tools were released prior to cementing operations.
- Before and during the cement job, the liner was rotated at 10 rpm to prevent differential sticking.
- The SwageSet packer was set mechanically with 40 klb and successfully pressure tested.

## Value to Client

- The Weatherford WPBR, SwageSet packer, and WPHR hanger were run to TD without incurring nonproductive time.
- Proper zonal isolation was established from the liner-top to the shoe, which enabled the client to perform a production test on the well.
- The SwageSet packer was run, installed, and pressure-tested without environmental or safety incidents, which indicates the reliability of the SwageSet packer technology.



A Weatherford liner system and cementing products provided reliable liner-top isolation that enabled a major operator to test the production zone of an onshore, oil and gas exploration well in Iraq.

Location Erbil, Iraq

Well Type Oil and gas exploration

Casing Type and Size 7-5/8 in., 55.3 lb/ft, T-95 Hydril MAC-11

Liner Type and Size 5 in., 18.0 lb/ft, P-110 Hydril SLX

#### **Products/Services**

- WPBR tieback
- SwageSet liner-top packer
- Mk5 SWP wiper plug
- WLCS landing collar
- Drillpipe dart
- Brass setting ball
- Float collar 402

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