Low-Pressure Casing-Exit Packer **Provides Economical Solution For Liner-Cementing Operation**

Objectives

- Establish a barrier that prevents cement from entering the main bore when cementing a 7-in. liner across the casing-exit window.
- Verify isolation of the main bore for milling, drilling, and cementing operations by performing a pressure test.

Our Approach

- Weatherford deployed the QuickCut[™] casing-exit system with the MultiCatch[™] anchor and a permanent low-pressure casingexit packer.
- The Weatherford team hydraulically set the MultiCatch anchor, and then simple downward force activated the low-pressure packer. A wellbore pressure test verified isolation of the main bore at 6,124 ft (1,867 m) with the packer holding 750 psi (5.2 MPa) of pressure for 10 minutes.
- Using the QuickCut milling assembly, the team milled the casingexit window and formation in an 11-hr single run. Inspection of the mill at the surface showed a 1/16-in. (1.6-mm) loss, which met the operational requirements.
- The team drilled the lateral to the target depth and installed the 7-in. centralized liner through the casing-exit window.
- The success of the milling and drilling operations enabled the operator to cement the liner as planned with an effective barrier in place.

Value to Client

- Using the low-pressure casing-exit packer enabled the operator to establish a barrier that prevented cement from intruding into the main-bore casing below the whipstock assembly.
- The low-pressure packer barrier reduced costs compared to traditional isolation methods used in sidetracking operations.



The Weatherford low-pressure casing-exit packer runs as an integral part of the whipstock assembly and therefore requires no additional trips to install.

LOCATION Kuwait

WELL TYPE Onshore, production

FORMATION Limestone

HOLE ANGLE

MILL SIZE 8.5 in.

MILLING FLUID Oil-based mud

CASING TYPE AND SIZE 9.625 in., 43.5-lb/ft L-80

DEPTH

In: 6,111 ft (1,863 m) Out: 6,132 ft (1,869 m)

SETTING DEPTH 6,134 ft (1,870 m)

RUN LENGTH

21 ft (6.4 m)

PRODUCTS/SERVICES

- Low-pressure permanent casingexit packer
- QuickCut casing-exit system Hydraulic MultiCatch anchor



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