



Weatherford®

REAL RESULTS

WRP Bridge Plug Overcomes Critical Well Issues, Provides Alternative Method for Wellbore Isolation in Abu Dhabi Oil Well

Objectives

- Mechanically isolate a well with critical well-control issues caused by a damaged/stuck nonreturn valve located only 7 ft (2 m) from the hanger, using non-explosive conveyance methods to overcome the shallow setting depth.
- Prepare the well for rig-up and workover operations.
- Perform the operation without safety incidents.

Results

- A Weatherford wellbore isolation solutions applications team designed a fit-for-purpose program to isolate the well.
- A 4 1/2-in. WRP retrievable bridge plug was conveyed on coiled tubing and set successfully within 6 in. (15 cm) of the obstruction, using a hydraulic setting tool.
- The WRP bridge plug was retrieved, using coiled tubing and rig movement, and the subsequent workover operation commenced.

Value to Client

- The size of the WRP bridge plug, less than 4 ft (1.2 m) long, was the ideal choice for the limited space above the obstruction and provided the operator with a safe alternative to installing the plug using explosive setting tools.
- This operation marked the first time a WRP bridge plug was used for the client, performing flawlessly in accordance with the tight specifications and with no reported safety incidents.
- With the success of this operation, full workover plans could be conducted following a cost-effective temporary plugback operation, eliminating the need for expensive alternatives (drilling and sidetracking).

The WRP bridge plug was an ideal solution for temporarily plugging back the well at a shallow depth and solving a major onshore operator's critical well-control issue. The plug was then successfully retrieved after rig mobilization.

Location

Onshore, Abu Dhabi

Well Type

Oil producer

Tubing Size

4-1/2 in., 12.6 lb/ft

Setting Depth

7 ft (2 m) from tubing hanger

Products/Services

- Thru-tubing packers
- WRP retrievable bridge plug
- Hydraulic setting tool



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