



Weatherford®

REAL RESULTS

Inflatable Retrievable Bridge Plug Passes through Narrow Wellhead to Isolate Zone, Saves Expenses by Minimizing Downtime

Objectives

- Facilitate a wellhead change by setting a tubing barrier capable of passing through a 4 1/16-in. wellhead with a minimum through-bore of 3.87-in. and setting inside 5-in., 18-lb C-75 Hydril SEU tubing. Adding complexity to the job design, the operation would have to be conducted rigless with potential high-pressure exposure and a significant amount of H₂S content.

Results

- Using an electric pump-setting tool conveyed on electric line, Weatherford ran two 3 3/8-in. electric-line inflatable retrievable bridge plugs (E-IRBP) as a dual barrier against the expected 3,200 psi (22 MPa) shut-in gas pressure.
- The well was filled with 9.9 ppg brine to mitigate both the high-pressure and high-H₂S content.
- The E-IRBP bridge plugs were then tested to 6,000 psi (41.4 MPa) and left in hole for the duration of the wellhead change, estimated at 48 hr.
- The wellhead was changed; the E-IRBP plugs were retrieved with electric line, using Weatherford's hydraulic retrieval tool, and the well was placed back on stream within 48 hr.

Value to Client

- The Weatherford solution saved costs by minimizing downtime while avoiding the added expense of mobilizing a rig and performing a complete workover.

Small-diameter E-IRBP tools are ideal for passing through restrictions. Their high-performance inflation elements provide up to 3:1 expansion, using Weatherford's electric-pump setting tool.

Client
BAPCO

Location
Bahrain

Type of Well
High-rate gas producer with a flow potential of 50 MMcfd

Products/Services

- E-IRBP tools
- Electric pump setting tool

