



Weatherford®

REAL RESULTS

Inflatable Retrievable Bridge Plug Stops Water Production, Enables More than \$2 Million in Hydrocarbon Production

Objectives

- Shut off the lowest stage in the main pay zone, which is producing excessive water equal to 1,200 BWPD (191 m³/d water) and impeding gas production.
- Enable perforation of the next highest zone to resume gas production.

Results

- Weatherford used coiled tubing to deploy a 2 7/8-in. electric-line inflatable retrievable bridge plug (E-IRBP). This tool is typically deployed with an electric pump-setting tool; however, the angle of deviation precluded use of wireline in this well.
- The E-IRBP passed through the minimum restriction in the 5 1/2-in. tubing and was set into the 7-in. liner to seal off the water-producing zone. Cement was then poured on top of the plug to ensure a permanent seal.
- Weatherford completed the plug-setting and cement-pouring operations in only two runs.
- The section above the shut-off zone was perforated, and gas production resumed at a rate of 4 MMscf/D (113,268 std m³/d).

Value to Client

- Before the Weatherford coiled-tubing intervention, the well was producing 10 percent gas and 90 percent water. After intervention, the well produced 100 percent gas.
- The E-IRBP enabled the next zone to be perforated and produced. The hydrocarbon produced as a result of this intervention was valued at between US \$2 million and \$2.5 million.



The Weatherford E-IRBP was deployed via coiled tubing to shut off a water-producing zone in an onshore gas well. This intervention enabled more than US \$2 million in production.

Location

Sindh, Pakistan

Well Type

Onshore gas

Well Deviation

63°

Hole Size

4-7/8 in. (lower) and 6.184 in. (upper)

Tubing Size

5-1/2 in.

Liner Size

7 in.

Depth In

5,741 ft (1,750 m)

Plug Setting Depth

4,757 ft (1,450 m)

Products/Services

- Electric-line inflatable retrievable bridge plug
- Thru-tubing services

Weatherford

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