



Weatherford®

REAL RESULTS

Kuwait: IPP™ and Hydrow™ I Packers Reduce Water-Cut Ratio, Increase Heavy-Oil Production

Objectives

- Isolate two high-pressure, high-temperature water zones in an oil-producing well to reduce the water-cut ratio from approximately 99% and increase oil production in spite of the presence of hydrogen sulfide (H₂S).

Results

- Weatherford deployed two 7 1/2-in. single-set pull release IPP injection production packers and one 9 5/8-in. cased-hole Hydrow I hydraulic-set dual-string packer to isolate the two water zones. One IPP packer was placed at 3,060 ft (934 m) to isolate the bottom water zone, while the second IPP packer was placed at 3,041 ft (927 m), and the Hydrow I packer was placed at 2,740 ft (835 m).

Value to Client

- Weatherford's Hydrow I packer and IPP packers allowed the operator to reduce the water-cut ratio from 99% to 30%, resulting in an increase in heavy-oil production to 70%, making the well more productive and efficient.
- The success of this operation gave Weatherford's client a viable solution for an additional 15 wells.



Weatherford's IPP packer provides a positive, pressure-tight seal for annular isolation between the workstring and casing or open hole to assist in remedial or abandonment applications during drilling and production. Compatible with drillpipe, threaded tubing, and coiled tubing, this packer offers the versatility of a temporary or permanent seal for single- or multiple-packer configurations in wells of any deviation.

Location

Kuwait

Well Type

Onshore, vertical oil producer

Hole Size

8-1/2 in.

Casing Size

9-5/8 in.

Products/Services

- IPP injection production packer
- Hydrow I hydraulic-set dual-string packer

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