

**Case study:** Litoral Tabasco, Mexico

# Premier packer adapted to different HP/HT wellbore scenarios in trial run, saved \$5 million USD

The insatiable demand for hydrocarbons compels operators to seek out and recover resources in areas previously unattainable. The development of extreme high pressure/high temperature (HP/HT) production packers is but one answer to overcome various geographic challenges.

A customer with a HP/HT well in the Litoral Tabasco region of Mexico requested a trial run with a packer that accommodated different wellbore scenarios, no envelope changes when the packer was provided with an upper seal bore/anchor, or when it was connected to the tubing.

Baker Hughes suggested the **Premier™ EP packer**, a safe and reliable production packer for oil and gas wells that isolates production zones and is designed for extreme HP/HT applications. The field-proven slip and packing element system ensures the packer anchors in the casing and contains the hydrostatic pressure of the well. Providing the sealing performance of a permanent packer and the flexible workover options of a traditional retrievable packer, the design features reduce well intervention and associated cost without compromising safety and reliability. The tool is a hydraulic-set packer with the advantages that incorporate a shift-to-release option.

The bottomhole assembly (BHA) consisted of the following components: a 7-in. Premier EP packer, a 3½-in. anchor, a ball seat, a polished bore receptacle (PBR), a sliding sleeve, a **SureSENS™ QPT ELITE gauge/carrier**, and a **tubing retrievable safety valve (TRSV)**.

When the BHA reached a depth of 14,930.56 ft (4552 m), Baker Hughes personnel dropped a 2¼-in. ball and applied pressure up to 3,800 psi (26.17 MPa). The packer was set and the annulus successfully tested to 1,000 psi (6.89 MPa). With a pressure of 5,300 psi (36.5 MPa), the ball seat was expelled and the sliding sleeve was opened with 2,300 psi (15.8 MPa).

Baker Hughes conducted the entire operation flawlessly with no delays, nonproductive time (NPT), or failures. The customer experienced zero health, safety and environmental (HSE) issues. By using the Premier EP packer, the customer was able to save 57.60 hours rig time, an estimated \$5,038,000 USD. So pleased with the operation in the trial well, the customer requested Baker Hughes to supply Premier EP packers for other similar wells in the future.

## Challenges

- Complete trial run in a HP/HT well
- Provide a packer which fits different well scenarios and no envelope changes

## Results

- Performed successful trial run according to program operative parameters
- Saved 57.60 hours rig time and \$5,038,000 USD
- Experienced zero HSE issues or NPT

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