

Uzbekistan

Halliburton installs first VersaFlex® expandable liner hanger in Uzbekistan

Gas-tight, liner-top isolation solution solves operator's gas migration challenges

CHALLENGE

- Provide a gas-tight, liner-top isolation system for gas migration challenges
- Eliminate service quality and HSE issues, while also minimizing NPT

SOLUTION

VersaFlex® expandable liner hanger (ELH) system, featuring:

- Hanger/packer design that sets and seals in a single trip
- Gas-tight isolation
- Liner rotation and reciprocation during cementing
- Optimized cement integrity

RESULT

- Successfully completed first installation of VersaFlex ELH system in Uzbekistan
- Enabled operator to avoid potential costly remedial operations
- The cemented VersaFlex ELH system set and sealed with zero NPT and no service quality or HSE issues

Overview

An operator in Uzbekistan was drilling its first exploration well in a major gas field that was expected to contain over 100 billion cubic meters of gas. During the initial well construction stage, the operator encountered gas migration issues across a competitor's conventional liner-top packer. The operator needed a reliable gastight, liner-top solution that would provide a positive seal to prevent gas migrations and avoid formation breakdowns.

Challenge

Running liner hanger operations in high-pressure gas wells is challenging, as the liner must be able to reach target depth and provide the capability to rotate and reciprocate the liner string during the cement job. This creates turbulent flow during the cement displacement, which improves the slurry bond and placement, while minimizing potential channeling and migration of gas. Once the cement is displaced, a gas-tight, liner-top packer is required to secure the liner top and provide competent isolation for the life of the well.

The operator faced the challenge of gas leakage from a competitor's liner-top packer and was looking for a robust liner hanger isolation system that would optimize cement integrity and wellbore stability in this complex well condition.

Solution

Halliburton proposed the VersaFlex® expandable liner hanger (ELH) system as a solution for the operator's first exploration well. The liner hanger assembly was built and exported from Kazakhstan to Uzbekistan. In parallel, the Cementing team designed the cement slurry based on the operator's requirements and cemented the 7-in. liner casing.



Halliburton crew on location

HAL124318

Result

Halliburton successfully deployed the first 7 × 9-5/8-in. VersaFlex® ELH system in Uzbekistan, which helped the operator prevent a costly remedial operation. The VersaFlex tieback seal assembly was run in hole with the 7-in. production casing and cemented to the surface. The installation was completed with zero non-productive time (NPT) and without any service quality or HSE issues.

With the highest reliability performance rating in the industry, the VersaFlex ELH system helped Halliburton set a benchmark with its first installation in Uzbekistan.



The VersaFlex® ELH has no external moving parts, and its unique integral design eliminates any leak paths below the packer.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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