

Creative Fishing Solutions Restores Well Production in Kazakhstan

Wellbore Integrity Solutions' (WIS) Red Baron fishing and remedial services successfully completed a complex workover in a valuable, producing well.

Operational planning and local experience delivers success.

A complex workover operation for a customer in Kazakhstan was completed successfully by the local WIS team. To complete this operation, several innovative solutions were required. Specific procedures were developed and risks were assessed in close co-operation with the customer. A valuable, producing well was subsequently restored.

Considerations:

- After several attempts a 7 inch Hydraulic Packer could not be recovered conventionally.
- Debris in the wellbore was considered to increase operational risks, in terms of both high torque and increased likelihood of stuck pipe.
- The condition of the production tubing and the specifications of the early electrical submersible pump (ESP) cable also increased operational risk in terms of recovery.

As part of the solutions provided, a modified Rope Spear and a Custom Junk Basket with spring tines was designed and manufactured at the WIS local base on an urgent basis. These customized solutions were key items that enabled the recovery of 800m of ESP cable. A mechanical backoff with a Left Hand (LH) Die Collar BHA recovered the production tubing and allowed access to the Hydraulic Packer. The Hydraulic Packer was then milled and retrieved.

A successful, challenging workover was concluded with customer recognition of WIS performance and support.



A customized Junk Basket with spring tines effectively recovers the ESP cable.

CHALLENGE

A valuable, producing well was at risk of being lost after unsuccessful attempts to release the 7 inch hydraulic set packer. The complexity of the planned workover was also increased by the condition of the production tubing and the ESP cable.

SOLUTION

- A modified Rope Spear and a custom designed Junk Basket was manufactured locally at short notice. These items were important in the recovery of the ESP cable
- A mechanical backoff with a LH Die Collar retrieved the production tubing
- The 7 inch hydraulic packer was subsequently milled and retrieved

RESULTS

- Retrieved 450m of ESP cable with a modified rope spear
- Retrieved 350m of ESP cable with a custom designed and manufactured Junk Basket
- Retrieved 84 joints of production tubing with the LH Die Collar
- Milled and retrieved the 7 inch hydraulic packer
- Completed the project to the customer's satisfaction

