

Certia and MPC enabled BHA retrieval in deep-water, ultra-high pressure stuck pipe operation

CHALLENGES

- While running in hole of a six-zone, multi-packer 7 in. OD completion string, an unknown number of packers were prematurely set, creating zones of free and stuck pipe close to the well's total depth (TD).
- There was uncertainty around which packers had set and where the free-pipe versus stuck pipe was located.
- The bottom hole assembly (BHA) had a minimum inner diameter of 4.75 in., limiting technology options.
- Zone of interest exceeded 32,000 ft with bottom hole pressure over 26,000 psi. It was critical that all technology was rated to 30,000 psi.

SOLUTION

- The [Certia™ pipe recovery log](#) was deployed via third-party wireline to identify the shallowest set packer and initial free-pipe depth.
- The [MPC™](#) electro-mechanical cutter was deployed to cut the 7 in. tubular and the set packers.
- Three additional Certia trips were conducted to locate the deeper free vs stuck zones and identify the deeper set packers.
- The tubular cuts were correlated using the integrated casing collar locator (CCL), while the packer cuts with MPC were completed with a custom no-go for precise depth control. A total of 10 MPC cuts were successfully made in the BHA.

RESULTS

- Identified free-pipe zones and set packers with precision using Certia surveys
- Enabled precision cuts in narrow packer cut windows with MPC and custom no-go tools
- Recovered bottom hole assembly through staged cutting and fishing operations
- Combined Certia surveys with MPC electro-mechanical cutter to deliver a complete intervention solution