



CASE STUDY

A Stuck Tool Does Not Equal To a Lost Well

A FIELD CASE ON HOW SUPERIOR'S **UNIQUE PACKER DESIGN PREVENTS** A COSTLY SIDETRACK AND **SAVES** A PRODUCTION ZONE

A global operator recently completed an intelligent deepwater well in 6,571 ft. water, with a well depth of 19,000 ft. Superior's ComPlete™ Frac-Pack Deep-Zone System was utilized to complete the well.

Each zone comprised of an intervention-less production initiation valve designed for fluid-loss control and selective production, with a re-closeable **Production Circulating Valve (X-PAC) in the lower zone and a re-closable Annular Flow Valve (X-AFV)** in the upper zone for annular flow control.

Each zone was treated using the Superior ComPlete™ Frac-Pack Deep-Zone service tool to maximize stimulation performance. During pumping of the lower zone sand control treatment, a **non-tool related event caused the service tool to become stuck** in the sealbore of the gravel-pack packer.

Considering the risks involved, and the ability to pull the entire Frac-Pack Packer System, a decision was made to salvage the completion by retrieving the sand-face equipment.

Superior's unique packer design with external retrievability, facilitated the removal of the stuck service tool and Frac-Pack assembly all at one time, in a single trip, with ease. No milling or side-tracking was required and the zone was rescued for future production, saving time and millions of dollars.

CHALLENGES

- » Potential loss of the production zone
- » Costs - In deep water, multiple trips required at times to fish out downhole equipment costs millions of dollars in non-productive rig-time and additional risk
- » Historical low success rate associated with attempts to retrieve the workstring and service tool together in a single trip
- » Milling of the entire assembly is time-consuming, risky and expensive

SUPERIOR ENERGY SOLUTION

- » The external retrieval feature on the packer enables recovery of the entire service tool and Frac-Pack assembly in a single trip
 - No milling of sand-face tools required
- » Cost-Savings
 - Millions of dollars required for additional trips and milling operation
 - Side-tracking the wellbore not required
- » Time-Savings
 - Prevented a risky milling operation
- » Salvaged the zone and future production

VALUE

- » Superior's line of CompSet™ Sealbore packers are designed for external retrieval to assist in getting the completion back on track and mitigate overall completion risks
- » The unique technology permits retrieval of the service tool and Frac-Pack assembly in a single-trip



COMPLETION SERVICES