

PRECISION MECHANICAL APPLICATIONS

COMPLETION MANIPULATION

Country: Angola
Year: 2015
Technologies: **PowerTrac 218** ● **PrecisionStroker 212**
Precision Hydraulic Shifting Tool 212

MAKING INTERVENTION
SMARTER

E-Line deployed **PrecisionStroker** opens a failed hydraulically-actuated fluid loss isolation barrier valve avoiding significant deferral of oil production.

- 3 months deferred production avoided
- Time, space and cost effective alternative to Coiled Tubing

CHALLENGE

After setting the lower and upper completions in a highly deviated extended reach well in deepwater offshore Angola, the fluid loss isolation barrier valve could not be opened using the hydraulically actuated mechanism, hence the well could not be put into production. This was assumed to be a result of debris accumulation in the well. A tight time window to execute an intervention meant a rapid but effective solution had to be found to open the valve to avoid deferred production of up to three months while waiting for the next available window on the platform.

SOLUTION

The E-Line deployed electrohydraulic **PrecisionStroker** was run in conjunction with a **PrecisionHydraulic Shifting Tool** to open the valve. This solution was chosen over a Coiled Tubing intervention option due to its faster mobilization and rig up time coupled with its smaller footprint requirement, which enabled the operation to be executed within the tight time window available. The toolstring was conveyed to depth over the highly deviated well section using a **PowerTrac** tractor.

RESULTS

The **PrecisionStroker** and shifting tool combination successfully opened the isolation valve allowing the well to be put onto production. This avoided deferred production of approximately 5,000 BOPD over a potential three month period. The operation itself was also considered a more cost effective solution versus Coiled Tubing with respect to overall well costs. It was requested by the customer that this solution becomes a contingency for all new well completions with fluid loss isolation barrier valves installed.

"I would like to express my special gratitude to everyone who made a direct or indirect contribution to the successful opening of the valve on the well."
Client Representative

PrecisionHydraulic Shifting Tool

