



PERFORMANCE BULLETIN

DSI PBL Bypass System helps the operator to save the well as it re-establishes circulation and kills the well in a packed-off situation allowing successful POOH.

Application

During offshore drilling operations for a major Indian operator, the well took an influx and partially collapsed, with the drill-string becoming packed off.

Challenges

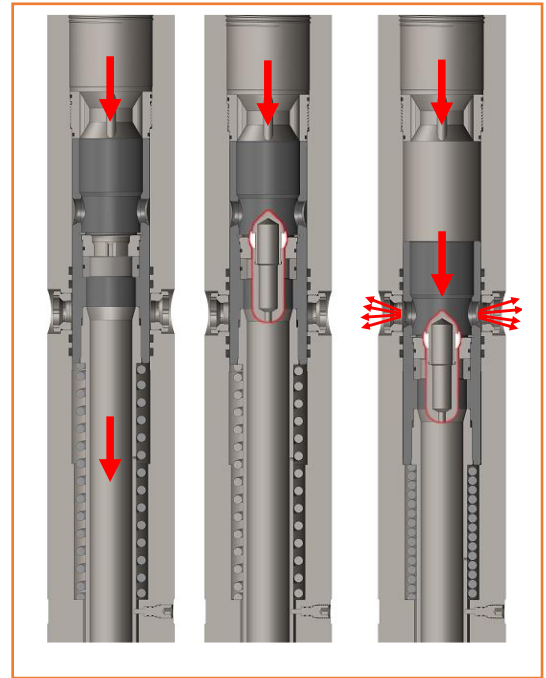
Unable to establish any circulation or rotation as the BOP was closed due to the inflow and, with only an 8m window in which to work the pipe, there was a need to displace heavier fluid in order to raise the hydrostatic, open the BOP and rotate the drill-string in an attempt to free the stuck pipe and POOH. It was therefore imperative that circulation was re-established as soon as possible as wellbore conditions continued to deteriorate.

Solution

DSI advised that a ‘Fast Dart’ should be dropped from the surface to the 8 ¼” PBL Circulating Sub, which was positioned within the BHA approximately 52m behind the drillbit. Falling under gravity and without the need to circulate, the ‘Fast Dart’ successfully landed in the PBL tool allowing the tool to be activated into the open position and begin attempts to regain circulation.

Results

- Once the PBL tool was activated, circulation was re-established through the open tool,
- Kill mud was then circulated down through the drill-pipe and returned via the choke line,
- Following circulation and conditioning of the mud through the PBL tool the well became static,
- The BOP was opened allowing the drill-string to be rotated, back-reamed and successfully pumped out of the collapsed well **in a situation where the entire well could have been lost, representing huge savings to the operator.**



PBL “Fast Dart”

The PBL Bypass System ensured that circulation was regained in a packed-off situation with well control issues and allowed the drillstring to be successfully pumped out of hole