



PERFORMANCE BULLETIN

PBL® Bypass System helps re-establish circulation in high angle pack-off situation

Application

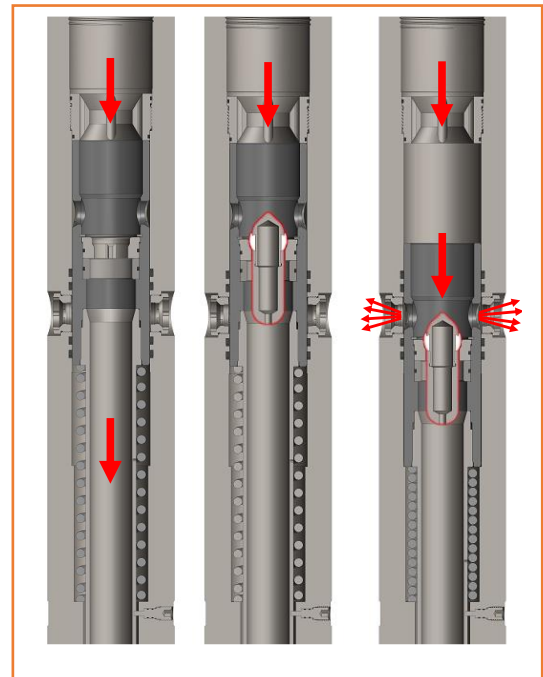
During an offshore drilling operation for a major Indian Operator, the drill-string became stuck and packed off, with the hole inclination at 60°.

Challenges

The operator was unable to establish any circulation or rotation and the jars were unable to fire up or down. It was imperative to re-establish circulation as soon as possible in an effort to help free the drill-string.

Solution

DSI advised that a Fast Dart should be dropped from surface to the 6 3/4" PBL® circulating sub, which was positioned within the BHA approximately 50m 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.



Execution / Results

- Once the PBL® tool was activated, circulation was gradually re-established through the open tool
- Staging up the pumps in small increments, the flow rate was increased to over 500gpm
- Cuttings returns were observed over the shakers
- The PBL® tool was then deactivated, and circulation re-establish through the drill bit
- The operator managed to free the drill-string and resumed drilling operations.



PBL® Fast Dart

Conclusion & Recommendation

The Fast Dart activation option ensures circulation is possible through the open PBL® Tool in a high inclination pack-off situation.

The PBL® Bypass System ensured that circulation was regained in a high inclination pack-off situation and enabled the operator to continue the drilling operation.