

# Hydra-Jar AP Assembly Frees Stuck BHA for Recovery in Oman Saves Over USD 1.3 Million

12¼-in BHA stuck at 3,574 m recovered on first attempt

## CHALLENGE

Free stuck 12¼-in BHA at 3,574 m for recovery after operator had tried other means unsuccessfully.

## SOLUTION

Use 8-in Hydra-Jar AP\* double-acting hydraulic drilling jar and 8-in Accelerator AP\* impact tool—optimally placed—aided by Jar-Pact\* impact tool BHA placement software.

## RESULT

Recovered stuck BHA on first attempt, with less than half the anticipated jarring time, saving more than USD 1.3 million.



## Drillstring stuck with bit at 3574 m

Upon completing a long 12¼-in vertical section from 957 m to TD at 3,590 m, an operator working in Oman picked up the drillstring 16 m, to perform a flow check, resulting in a stuck BHA. Circulation, rotation, and vertical movement were all lost. When attempts to jar the string free failed, Schlumberger was contacted to recover the stuck BHA.

## Hydra-Jar AP drilling jar and Accelerator AP tool positioned for maximum impact

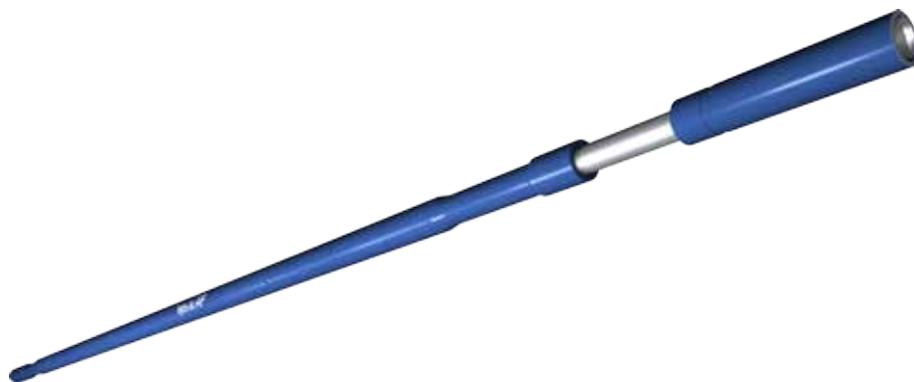
Jar-Pact impact tool BHA placement software was used to position an 8-in Hydra-Jar AP double-acting hydraulic drilling jar and an 8-in Accelerator AP impact tool in a screw-in fishing assembly, in order to optimize the impact and impulse values at the stuck point.

The drillstring was backed off one drill collar above the top stabilizer, at 3,536 m, and pulled out of hole. The fishing assembly was run in, the fish engaged, and down-jarring operations commenced. An 8-h period of jarring down was anticipated, followed by 8 h of jarring up.

## Quick recovery of the BHA on the first attempt saved over USD 1.3

Results were seen after only 1 h of jarring down: movement was noted and within 6 h a 14-m pocket was created, enabling circulation and rotation of the BHA. The freed BHA was pumped out of hole because of drag and excessive return of cuttings. At surface, the motor sleeve stabilizer was found to be ¼ in under gauge and the bit was 2¼ in under gauge.

Recovery of the stuck BHA saved more than USD 1.3 million and eliminated the need to sidetrack. The customer requested the Hydra-Jar AP drilling jar and Accelerator AP tool for subsequent wells.



Hydra-Jar AP