

# STUCK SEAL ASSEMBLY RECOVERY - GULF OF MEXICO SHELF

Recovery completed @ 21,300ft MD onboard platform in 1,290ft water depth



Rig pull available at stuck point less than ~55,000 lbs

Seal Assembly on the bottom of a completion from a packer bore @ 21,300ft

DHPT applied 200,000 lbs directly at stuck point to recover Seal Assembly

## The Challenge

- Recover a stuck 4" Seal Assembly on the bottom of a completion from a packer bore @ 21,300ft
- Equivalent of 27,000 lbs acting down on seal assembly due to differential pressure
- Rig overpull limited to 55,000lbs @ fish due to depth and well path
- 6 previous attempts to recover with Jars had been unsuccessful and well suspended as a result
- Several \$M's spent by operator up until this stage

## The Solution

Ardyne mobilised a 5 3/4" DHPT offshore in conjunction with the incumbent fishing tool provider's Overshot assembly to apply pulling power directly to the stuck seal assembly, negating the rig and drill pipe limitations.

The 5 3/4" DHPT is set inside 7" Casing and can apply a force of up to 515,000lbs if required.

## The Result

A total force of 200,000lbs was applied by the DHPT before the seal assembly pulled free, almost 4x the rig's capability.

The full length of the seal assembly was pulled free from the packer bore after 3 strokes (6ft) of the DHPT and recovered to surface intact. The operator was able to recomplate the well as per original programme and hand over to production after months of being suspended.

