



# Ardyne® & Weatherford, Casing Recovery Solutions EXTEND PRODUCTION LIFE AND ABANDON SUSTAINABLY



## THE PARTNERSHIP THAT DELIVERS

Working together, Weatherford and Ardyne now represent the world's leading compilation of plug-and-abandonment and slot-recovery technologies and expertise—all designed to extend productive well life and maximize asset value before final decommissioning. Powered by Ardyne Technologies and the exclusive casing recovery systems from Trident® and Titan®, this collaboration fulfills the vital need for late-life well management, featuring its specialized engineering to reach hidden energy reserves and sustainably abandon nonproductive wells within complex environments. Weatherford's access to Ardyne technology now presents the premier, single-source, well-solutions provider with the most reliable, efficient, and incident-free operations in the world.

Weatherford Intervention Services and Drilling Tools combined with Ardyne technology can now supply operators and drilling contractors an extensive range of fishing and re-entry services and products. Take advantage of world-class experts working directly to provide fit-for-purpose solutions that overcome downhole problems. From conventional fishing, milling services, casing exits, and anything in between, Weatherford and Ardyne present an unprecedented network of locations to support client operations with the latest industry technologies.

### Integrated Simplicity that Solves and Saves

**ALL-INCLUSIVE CASING RECOVERY SYSTEM**  
optimizes casing recovery and well abandonment programs

**ON-DEMAND CUT & PULL FUNCTIONALITY**  
eliminates redundant operations through single-trip efficiency

**INNOVATIVE PERFORMANCE AND EXPERTISE**  
reduces OPEX, increasing HSE performance and reducing CO<sub>2</sub>



## FIELD-PROVEN TECHNOLOGY

### DEEPWATER GoM

Saved 94.5 Hours Rigtime  
65% Efficiency Gains

### NORTH SEA

Saved 14.6 hours Rigtime  
35% Efficiency Gains

### DEEPWATER EAST AFRICA

Saved 14.5 hours Rigtime  
40% Efficiency Gains

### NORTH SEA

Saved 47 Cubic Tons CO<sub>2</sub> Emissions  
29% Efficiency Gains





# THE INDUSTRY'S MOST COMPREHENSIVE PORTFOLIO OF CASING RECOVERY SOLUTIONS WITH INTEGRATED, SINGLE-TRIP SIMPLICITY



## REDUCE RIGTIME

The holistic portfolio of Weatherford and Ardyne empowers operators to solve complex problems associated with well abandonment and slot recovery while eliminating multiple runs for enhanced rigtime efficiencies.

The TRIDENT® and TITAN® systems are exclusively designed to cut and recover casing in a single trip and provide the most efficient operation to reduce rig time and save OPEX.

TRIDENT, the industry-leading, single-trip, cut-and-pull system that permits operators to cut and recover casing on demand, maximizing recovery operations.

TITAN utilizes the Down Hole Power Tool to apply direct pulling force at the stuck point, enabling casing recovery from active formations or those with restrictions due to settled solids—avoiding multiple expensive and time-consuming remedial operations.



## ADAPT WITH AGILITY

The Weatherford/Ardyne toolbox, consists of an industry-leading, proprietary suite of technologies featuring its primary focus on saving rigtime with configurable designs that quickly adapt to solve wide-ranging scenarios—such as casing sizes and weights, recovery depths, formations, annulus fluids, and barrier-verification requirements.

The flexibility and agility of the TRIDENT system to make multiple cuts and pulls in the same run and utilize its integrated tension-set packer and hydraulically activated spear provides industry-leading, single-trip efficiencies.

TRIDENT also provides the ability to set bridge plugs in the same run or use a bit to dress cement plugs prior to cutting-and-recovery operations.

TITAN permits unmatched on-demand downhole pulling force at the stuck point, providing the highest probability of a successful casing recovery. The flexibility of TITAN offers the assurance of being able to reposition and perform additional cuts without having to pull out of hole.



## SIMPLIFY AND DE-RISK

Revolutionary versatility and single trip efficiency simplifies operations for guaranteed performance while decreasing HSE exposure and lowering carbon emissions.

World-class engineering expertise ensures superior project planning, guidance, and best practices—creating ideal solutions that are purposefully designed to eliminate redundancy, improve safety, and reduce footprint.

Ardyne technology eliminates redundancy by reducing remedial operations associated with well abandonment and slot recovery.

Together, Weatherford and Ardyne improve safety performance—driven by less time in the redzone handling bottomhole assemblies, tripping drillpipe, and eliminating the need for remedial activities

By virtue of reducing rigtime and its associated heavy equipment, a lower carbon footprint is attained, which will be directly related to all project worksopes and results.

The Ardyne and Weatherford partnership is not being offered in UK, North Sea and Eastern Canada.

Trident® and Titan®, are patented products and registered trademarks of Ardyne Technologies, used with their permission.

