

Casing-Recovery Solutions with TRIDENT® System

Improves Efficiency of Deepwater Slot Recovery 40%

Saves 14,100 Tripping Feet and 14.5 Rigtime Hours

Objectives

- Reduce rig time and number of trips required to set the bridge plug, circulate the well, cut the casing, and recover back to surface in a single trip to facilitate an openhole sidetrack.

Our Approach

- Upon evaluating the customer's requirements, the Trident single-trip cut and pull system was selected due to its ability to meet the objectives.
- The Trident system was utilized to run and mechanically set a third-party bridge plug prior to pulling back to cutting depth and then setting the Trident anchor.
- Once the anchor was set, the casing was cut using the top drive.
- Upon successfully cutting the casing, the Trident system was relocated to the subsea casing hanger and the anchor reset, thus permitting recovery of the casing back to surface.

Value to Customer

- The Trident system's ability to execute all the objectives in one run allowed the customer to improve efficiency by 40% and save 14.5 hours' rigtime and avoid tripping 14,100 feet (4,297 m) of drillpipe.
- Because the system does not rely on a marine swivel to perform the casing cuts, the integral anchor can be set anywhere in the casing string and inherently builds contingency into the operation, allowing the operator to reposition and perform additional cuts, should it be required, without having to pull out of hole and respace. This also eliminates any need for a spacer string between the anchor and the cutter, and thus any requirement to strip drill pipe after the casing is secured in the rotary.
- The Trident system's integral tension-set packer permits the operator the capability to set the packer after cutting the casing and circulate the annulus, should it be required. Whether this is to remove trapped gas or just clean the casing before pulling out of the hole, this feature demonstrates the agility of the Trident system and the ability to de-risk the operation in terms of HSE and operational expenditure.
- Through the reduction in the number of trips required to perform the operation, the operator lowered the carbon footprint associated with the casing recovery. Likewise, the amount of drill pipe tripped was reduced, minimizing the time the personnel spent in the redzone.



The Weatherford Trident system is a single-trip, cut and pull technology that incorporates several innovative trip-saving features, including an integral tension set packer, a hydraulically activated anchor. In a single trip, the Trident system can run and set a bridge plug or dress a cement plug; cut casing; circulate annular gas; and recover casing to surface.

LOCATION

Deepwater West Africa, Côte d'Ivoire Coast

WELL TYPE

Offshore, Oil

WATER DEPTH

3,700 ft (1,127 m)

CASING SIZE

13-3/8 in.

BRIDGE-PLUG SET DEPTH

6,660 ft (2,029 m)

SHOE DEPTH

6,614 ft (2,015 m)

CASING-CUT DEPTH

6,614 ft (2,015 m)

CASING-RECOVERY DEPTH

3,748 ft (1,142 m)

PRODUCTS/SERVICES

- Casing-Recovery Solutions
- TRIDENT® single-trip cut and pull system

