

REAL RESULTS

DwC[™] System Sets Casing in Problematic Papua New Guinea Well in a Single Trip, Saving Operator \$275,000

Objectives

• Run 13 3/8-in. casing to a total depth (TD) in a relatively unstable formation after a previous attempt using conventional technology proved unsuccessful. The initial attempt to run 13 3/8in. casing to TD became stuck at 1,690 ft (515 m), resulting in 35 hr of nonproductive time (NPT) to free the casing and pull out of hole. Once the casing was retrieved, a wiper trip was performed, resulting in another 61 hr of NPT.



- Weatherford's Total Depth Solutions team recommended using the modified drilling-with-casing (*DwC*) spear, coupled with a reamer-type shoe, to enable fill-up, circulation, and reaming.
- The modified *DwC* spear and reamer-type shoe were deployed, circulated, and reamed past the restrictions, achieving TD in a single run and enabling the operator to get back on schedule.

Value to Client

- The casing was reamed in and reached TD in just 19 hr, saving approximately US\$275,000 in rig time and associated costs.
- This innovative approach set a benchmark for future casing running operations in Papua New Guinea.
- The operation was performed efficiently without any recordable safety incidents.



Weatherford's *DwC* internal casing drive system enhances conventional casing makeup systems and offers reliable, highly capable performance when simultaneously drilling the hole and running casing.



This time vs. depth graph illustrates the efficiency of the *DwC* system in reaching TD where previous, conventional technology failed.

Location Papua New Guinea

Formation Upper Orubadi and Lower Darai limestone

Well Type Onshore, gas-condensate producer

Hole Size 16 in.

Setting Depth 3,415 ft (1,041 m)

Casing

13 3/8-in., 68-lb/ft L-80 BTC

Products/Services

- Modified DwC spear
- Reamer-type shoe

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