



# KINABALU, MALAYSIA

UROS GETS TO BOTTOM EVEN IN HIGH DLS, UNDER-REAMED WELL

<b>Region:</b>	South East Asia
<b>Location:</b>	Kinabalu

<b>Country:</b>	Malaysia
<b>Field:</b>	Kinabalu KN-KN-110ST4

## THE CHALLENGE

A high DLS (dogleg severity), under-reamed well where conventional bow string centralizers are often oversized and damaged due to their weak joints (welded/hinged) when passed through narrower casings. Rigid centralizers, intended to deal with this issue, are undersized and lie on the low side to produce a poor cement displacement and zonal isolation.

## THE SOLUTION

Operator used the 7 x 9 1/2" Centek UROS centralizer. As a precisely fitting bow string centralizer, designed for the wellbore and developed to greatly reduce torque and drag losses, the UROS centralizer offers high fatigue strength for axial forces and radial side loads on bows during tubular rotation.

## THE RESULT

Casing reached bottom without incident. The casing string was rotated whilst cementing at 20rpm, 10-15kft lbs torque.

“ No issue at all to get casing to the bottom...managed to rotate while cementing approximately 20rpm, 10-15kft lbs torque. Will be using the same for the next 2 wells. ”

Mohd Irfan, Talisman Energy



## UROS Award Winning Innovation

- Single piece construction with offset bows
- Proven tool for deep water
- Dramatically reduced initial insertion forces into previous casing
- Reduces restart force on RIH
- Reduced running force and drag, saves rig time on RIH
- Positive location in under-reamed or wash out conditions with excellent stand-off performance

EXCELLENCE TO THE CORE