## After 92 Circulating Hours, Paradigm's Extreamer ${ }^{\circledR}$ Completes Latin American Reaming Operation. In one trip, reamer enlarges 2,003m section from $95 / 8^{\prime \prime}$ to 10 ".

## Overview

A customer in Latin America needed to underream a long predrilled $95 / 8^{\prime \prime}$ hole, but also had 368 m of $12^{1 / 4^{\prime \prime}}$ rat hole that had partially collapsed below the prematurely set intermediate casing.

## Challenge

Ream tight spots over 368 m of $12^{11 / 4^{\prime \prime}}$ rat hole, below the prematurely set casing shoe, before underreaming $1,635 \mathrm{~m}$ of pre-drilled $95 / 8^{\prime \prime}$ hole to $10^{\prime \prime}$, to section TD. The application would require the reamer to be robust, to maintain reliability through the unstabilised $12^{1} 4^{\prime \prime}$ section prior to underreaming the pre-drilled $95 / 8^{\prime \prime}$ hole. Obviously, the reamer needed to reliably deactivate once the operation was complete.

## Solution

Run the Paradigm Extreamer ${ }^{\circledR}$ with Premium PDC cutters.

## Result

Using the $8^{\prime \prime}$ Paradigm Extreamer ${ }^{\oplus}$, with $10^{\prime \prime}$ cutters, the 368 m of $12^{1 / 4^{\prime \prime}}$ rat hole was reamed without incident; other than noting regular torque spikes. The $1,635 \mathrm{~m}$ of $95 / 8^{\prime \prime}$ hole was reamed out to 10 " over just 42 hours of drilling and 92 circulating hours.
Post-operational analysis of the run indicated the reamer performed perfectly, meeting all the operational objectives of the application and the customer successfully ran the casing. Upon inspection, the Paradigm Extreamer ${ }^{\circledR}$ with Premium PDC cutters was found to be fully functional, and the cutters dull graded just in Gauge.


