

Articulating Hole Finder™ Enables Logging in Challenging Southeast Asia Well

Objectives

- Logging was planned in a new well in an area with historically difficult hole conditions.
- A combination of shallow kickoff depths and unconsolidated formations previously resulted in many wireline logging attempts failing to reach Total Depth (TD) due to washouts and bridges.
- Lightweight tools limit set-down weights with which to pass obstacles.

Our Approach

- Pre-job modelling using the SMART Planner™ wireline simulation software showed that the tool string could reach TD by reducing friction.
- Friction reduction was achieved through the introduction of I-Wheel™ roller conveyance, improving modelled set-down weights by over 80%.
- The Articulating Hole Finder (AHF) was integrated into the tool string to provide reactive 360-degree articulation for optimal angular deflection to negotiate all obstructions.

Value to Customer

- Increased well logging efficiency.
- Reduced risk and cost.
- The open hole logging was successfully completed, the tools reached TD and the data acquisition objectives were achieved.



The Weatherford articulating hole finder is a specifically engineered hole finder that incorporates responsive articulation and adjustment based on downhole conditions.

LOCATION

Southeast Asia

WELL TYPE

Directional Openhole

HOLE SIZE AND ANGLE

12.25 in. (311.15 mm)

OPEN HOLE SECTION

> 1,500 ft (457.2 m)

WELL TD

< 10,000 ft (3048 m)

AHF BALL SIZE

7.125 in. (180.975 mm)

I-WHEEL TYPE

XT, Integrated, ST

PRODUCTS/SERVICES

- Articulating Hole Finder
- I-Wheel
- SMART Planner

