



Case Study

I-Wheel™ and Articulating Hole Finder™ Extend the Range of Wireline in Thailand

Challenge

- The operator performs wireline petrophysical logging and pressures/samples from the reservoir section of most of their production wells.
- The well profiles are complex with 3D directional changes and extended tangent sections with deviation in excess of 70 degrees.
- With low running weight and consequent sensitivity to micro tortuosity and borehole irregularities, these well profiles make reaching depth with wireline logging tools very challenging.

Solution

- Pre-job modelling using Impact Selector’s Smartplanner™ software showed that the tool string alone could not reach the target depth (TD).
- Adding I-Wheel™ rollers to the string design reduced the friction enough to enable the tool string to negotiate the complex profile to the reservoir interval.
- The Articulating Hole Finder™ was integrated into the tool string to provide 360-degree reactive articulation and optimize the angular deflection to further minimize the risk of hanging up and providing additional friction reduction and assurance.

Value to Customer

- Increased well logging efficiency.
- Reduced risk and cost.
- Multiple wells have been successfully logged; and the data acquisition objectives achieved.

Impact Selector Products/Services

- Articulating Hole Finder™
- I-Wheel™
- Smartplanner™ Wireline Simulation Software

Well Data

Gas Producer

Hole Size

6.125 in (155.575 mm)

AHF Roller Nose Size

4.75 in (120.65 mm)

I – Wheel™ Type

Integrated



Download
AHF Data Sheet



Download
I-Wheel Data Sheet