

Compact™ Drop-Off Ends 3 Days of NPT, Logs Difficult Well, Confirms Rock Properties

Objectives

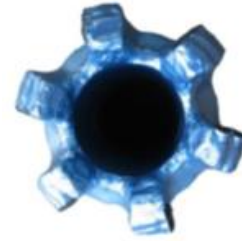
- Acquire formation evaluation data in the 8.5-in. openhole section of an development well. A competing wireline services company incurred 3 days of nonproductive time (NPT) due to a stuck tool. The operator considered cancelling logging of the 1,968 ft (600 m) section and drilling ahead blind if further logging NPT occurred.

Our Approach

- After running a deployment risk assessment, Weatherford recommended the use of the Assure™ conveyance system in Compact drop-off mode (CDO). The team mobilized from northern Iraq to the southern part of the country in less than 48 hours.
- The team planned a single-run logging trip during a scheduled wiper trip to save rig time. They rigged up a single toolstring in the following configuration: a CDO Special Bit along with a Compact cross-dipole sonic, density, neutron, and gamma ray tools.
- The operation was logged in memory mode and was completed in a single run with no additional NPT.

Value to Client

- The Weatherford wireline services team provided quality logging data in a difficult hole section in which a competitor had failed. The operation provided data 1,968 ft (600 m) of the well that would have been otherwise cancelled or shortened.
- Once processed at the surface, the data enabled calculation of the formation rock mechanical properties. This increased client knowledge of the field and confirmed the formation payzone and the commercial value of the well. This data will also enable drilling parameter optimization in future projects.
- Using the Assure conveyance method eliminated the risks associated with wireline cable operations and provides the capability to pull logging tools from the BHA at any time.



The Weatherford wireline team deployed a formation evaluation toolstring via the Compact Special Bit.

LOCATION

Southern Iraq

FIELD

SIBA Field

FORMATION

Yamana Limestone

WELL DEPTH

13,343 ft (4,067 m)

HOLE SIZE AND ORIENTATION

8.5 in. vertical

PRODUCTS/SERVICES

- Wireline services
- Assure conveyance system
- Compact cross-dipole sonic tool
- Compact density tool
- Compact neutron tool
- Compact gamma ray tool
- Compact Special Bit

