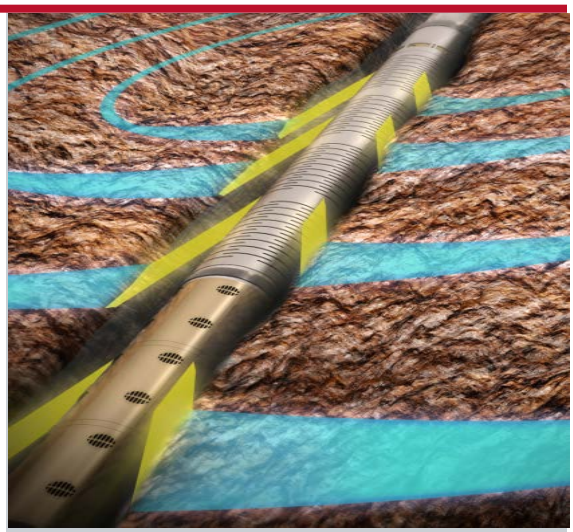
Weatherford®

REAL RESULTS

ShockWave® Sonic Tool, LWD Triple-Combo Deliver Good-Quality Sonic Logs Despite Harsh Environment



Weatherford's *ShockWave* sonic tool provides robust, reliable LWD sonic data for key applications such as seismic time/depth correlation, pore pressure determination, and porosity evaluation.

Objectives

- Obtain sonic data despite bubble-filled mud, mud pumped from the annulus, and the complete loss of fluid through the formation.

Results

- Weatherford deployed the *ShockWave* sonic tool in memory mode, with minimal mud around the tool, and the triple-combo logging-while-drilling (LWD) tools.
- The operator received continuous compressional-slowness arrival data for the complete run in a tough mud environment with no mud returns.
- From the measured sonic slowness arrivals, the operator converted the time scale to depth in the seismic data.

Value to Client

- Using Weatherford's *ShockWave* sonic tool and the triple-combo LWD tools enabled the operator to acquire and add good quality acoustic data to the seismic profile data and seismic correlation in a harsh drilling environment.
- Running the *ShockWave* tool in memory mode provided seismic data, saving significant rig time and associated costs.

Location
Kurdistan, Northern Iraq

Formation
Anhydride limestone

Well Type
Onshore, vertical, oil producer

Section Length
2,883 ft (879 m)

Average Rate of Penetration
Pulling-out speed: approx. 150 ft/hr (45.7 m/hr)

Products/Services
- *ShockWave* sonic tool
- LWD triple-combo tools

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