



# Weatherford®

## REAL RESULTS

### Fast, Accurate, Reliable: High-Speed Gas Chromatograph Gives Pakistan Operator a Better Evaluation Solution

#### Objectives

- Mark casing points and formation characteristics for multiple exploration and production wells in a geologically complex area. Previous attempts had produced questionable or inaccurate results.
- Minimize the time required to evaluate the wells.

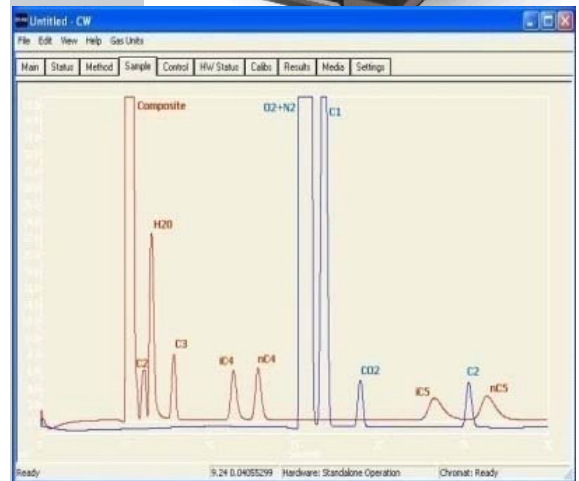
#### Results

- Weatherford's high-speed gas chromatograph (HSGC) was used to accurately mark casing points, characterize the formations, and define the zones of interest—faster than possible with the technology the operator had previously used.

#### Value to Client

- The success of the HSGC gave the operator a reliable solution for identifying pay zones for these and future wells:

"I'm very impressed with your GC results and effectiveness. We are looking forward to replacing and using the same technology."



Weatherford's high-speed thermal conductivity detector (the HSGC) analyzes C1 to C5 and CO<sub>2</sub> in less than 30 seconds (in contrast to the 1 to 2 minutes possible with flame ionization detectors), significantly minimizing the risk of missing bypassed pay and poorly defined zones of interest.

**Location**  
Pakistan

**Well Types**  
Exploration and production

- Products/Services**
- Surface logging services
  - High-speed gas chromatograph

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