

Testing and Production Services

Builds Extended Well Test Facility in Just 3 Weeks, Accelerates Production in Remote H₂S-Bearing Field

Objectives

- Design and build an extended well test (EWT) facility at a remote location in Iraq. The single-well facility must accommodate 10,000 B/D (1,590 m³) of flow, process the crude oil to a temporary tank farm, remove up to 0.1% hydrogen sulfide (H₂S), and flare the associated gas.
- Commission the facility and deliver first production as soon as possible.
- Operate and maintain the facility under a lease contract.

Our Approach

- A testing and production services team leveraged the local Weatherford supply chain, procurement, safety, and human resource assets to engineer a fast-track solution.
- Design for the facility began immediately with ReO[®] production simulation and optimization software, which simulated flow and wellbore conditions to size and select equipment and demonstrate system efficiency.
- The Weatherford team identified a solution that used standard and readily available well-test equipment. They installed baseline EWT equipment, including a choke manifold, first-stage separator, second-stage separator, third-stage separator, and vertical gas flare. The team added a chemical-injection package for H₂S treatment along with crude storage tanks and a tanker loading system to facilitate crude transport.
- The team commissioned the EWT facility and delivered first production within 3 weeks of closing the contract. The success of the project led the customer to commission two more projects of similar scope from Weatherford.

Value to Customer

- Capitalizing on a deep pool of local and global experience, a Weatherford testing and production services team delivered a complete EWT facility in just 3 weeks. This timeframe accelerated production for the customer at a rate that was unprecedented in Iraq.
- The project delivered a safe and reliable facility that processes up to 10,000 B/D (1,590 m³) of flow, removes up to 0.1% H₂S, and stabilizes crude for tanker loading and transportation.
- The lease agreement, which is scheduled through late 2019, delivered a CAPEX-free EWT solution for the customer.
- The facility provided a safe and reliable EWT template for the client, which Weatherford has repeated in two similar projects to date.



A Weatherford testing and production services team designed, built, delivered first production within 3 weeks of closing the contract.

LOCATION

Iraq

WELL TYPE

Onshore oil producer

H₂S CONTENT

0.1%

FACILITY CAPACITY

10,000 B/D (1,590 m³)

PRODUCTS/SERVICES

- Testing and production services
- ReO software

