



Weatherford®

REAL RESULTS

Jordan: Dry-Gas N₂ Drilling Successful in Highly Water-Sensitive Risha Formation

Objectives

- Increase the production rates of three wells in a highly water-sensitive formation by drilling without incurring the formation damage that would typically result from conventional drilling.
- Increase rates of penetration (ROPs) relative to conventional drilling.
- Capture real-time surface flow and pressure data.

Results

- Formation damage was reduced and production rates were increased with the use of underbalanced drilling (UBD) techniques.
- ROPs reached a maximum of 30 ft (9 m) per hour as opposed to an average of 6.6 ft (2 m) per hour with conventional drilling.

Value to Client

- Based on the success of these three wells, NPC Jordan planned a second three-well UBD campaign in the same field later the same year.

**Client**

NPC Jordan

Location

Eastern Jordan

Formation

Risha

Well Type

Re-entry

Wells

RH-38, RH-36, and RH-36S

Products/Services

Controlled Pressure Drilling® (CPD®)
services