

GARRAF OIL FIELD, IRAQ

APPLICATION: FLUID PRECONDITIONING

Background

During cleanup of an acid-treated development well for Petronas, the recovered fluid contained high salinity (220,000 ppm) and low pH levels, making it hazardous for processing through the facility's dry-gas seal (DGS) separators. Because of Iraq's quality regulations for water production and pollution, the high volumes of water could not be simply disposed at the wellsite. An innovative fit-for-purpose solution was needed to treat and dispose of the water while sending recoverable hydrocarbons directly through to production.

Technologies

Production ExPRESS* rapid production response solutions



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Water Evaporation Solves Production Challenges for Acid-Treated Well in Iraq

Innovative method was a groundbreaking solution that avoided shut-in and revived production up to 4,000 bbl/d



Schlumberger's Production ExPRESS solutions team developed a unique set of mobile well testing equipment to enhance water-oil separation, which they did through meticulous monitoring of the separation efficiency process. Once the water was separated and treated, it was evaporated and converted into fine water droplets carried by air, making it suitable for disposal. This innovative method of water disposal was a groundbreaking, fit-for-purpose, and cost-effective solution that avoided well shut-in and revived production at a rate of 4,000 bbl/d.