



Weatherford®

REAL RESULTS

Pakistan: Controlling Annular Returns Reduces Risk to Personnel, Environment, and Equipment While Improving Well Control

Objectives

- Drill an 8 1/2-in. hole section to total depth without excessive or unplanned nonproductive time (NPT).
- Contain annular returns on the rig floor, eliminating the risk of release of hazardous gases into the atmosphere from the use of a conventional open-to-the-atmosphere bell nipple or drilling nipple.

Results

- A closed and pressurizable drilling fluid returns system was created by adding a low-pressure rotating control device (RCD) above the conventional blowout preventer.
- The 8 1/2-in. hole section was successfully drilled without incident or any NPT-related gas releases onto the rig floor, allowing the operator to reach planned depth without any related formation gas influx or well-control issues.

Value to Client

- Using managed pressure drilling averted a hazardous health, safety, and environmental condition with potentially catastrophic consequences.
- Reducing NPT while maintaining conventional operations enabled the operator to achieve substantial savings on capital investment in the well.
- The cost of renting the RCD was totally offset by savings achieved through a reduction in NPT, enabling the Weatherford solution to easily pay for itself.



A Weatherford low-pressure RCD successfully controlled a potentially catastrophic gas influx in this well in Pakistan's Khosat field.

Weatherford's Controlled Pressure Drilling® services bring together the technology systems and support to help operators safely drill wells, whether the objective is to drill faster, reduce NPT, or enhance well productivity and reservoir recovery.

Client

Mari Gas Company Limited

Location

Khost field, Pakistan

Well Type

Vertical

Hole Size

8-1/2 in. (216 mm)

Products/Services

- *Controlled Pressure Drilling* services
- Managed pressure drilling
- Low-pressure RCD