

Case Study:

KickAlarm

Kick detection during hole enlargement



Kick Detection during hole enlargement utilizing KickAlarm



Client

European client. Onshore Well drilled in Italy.

Challenges

The well was being opened from 14 3/4" to 16 1/2". Due to the losses incurred when drilling the 14 3/4" section, the MW cannot be increased further and thus flows of Gas from Fractures are common.

Solution

Utilizing the KickAlarm service with both Flow Out (Electromagnetic) and Flow In (individually for each of the 3 pumps), the flows could accurately be monitored and alarms raised promptly when any abnormal flows are observed.

Results

On numerous occasions during the hole opening stage, flows from the wells were observed by the KickAlarm service without any reaction from other methods of detection, which enabled the well to be shut in and well controlled through the choke, enabling resumption of operations within an average of 2 hours.

Value

Catching the Gas influx's at the earliest possible stage allowed the well to be brought under control and normal operation to be resumed within a minimum of time.

Services used



SAVINGS Saved US\$ 500K for well control circulations

