A WELLBORE CLEANUP & DISPLACEMENT SOLUTION

IVORY COAST OPERATOR NETS ENHANCED WELLBORE CLEANOUT AT REDUCED COST.

TETRA Steps in to Deliver Both Cost Savings and Better Well-bore Cleanout amid Major Challenges

OVERCOMING LOGISTIC AND PANDEMIC CHALLENGES TO DELIVER SERVICES

Seeking a different service provider for reduced costs and improved wellbore cleanout, an operator developing several deepwater natural gas wells in the offshore waters of Ivory Coast (Côte d'Ivoire) engaged TETRA to provide the necessary tools and services.

The location of the shallow-water wells posed major challenges at a time when the global COVID-19 pandemic was disrupting the workforce, supply chains, and equipment availability. Adding to these logistical challenges, at the time TETRA had no facility in Ivory Coast. The operator nonetheless had a tight schedule for developing the wells to meet natural gas demand for power generation in Ivory Coast, so avoiding delays in the wellbore cleanout was crucial.

DEPLOYING FROM THE UK AND GHANA, WORKING AROUND THE CLOCK

TETRA accepted the job and staged operations out of its Takoradi base in neighboring Ghana. Most of wellbore cleanout tools were airfreighted from the United Kingdom to Ivory Coast, while the remainder were transported by marine vessel from Ghana to the offshore project site.

Additional support came from TETRA engineers based in the UK who travelled to the region. Because the personnel in Takoradi were already supporting operations in Ghana, the team had to work around the clock to support the Ivory Coast project and maintain the tight schedule. On a few occasions, the TETRA operations manager for West Africa filled in for engineers who tested positive for COVID but who soon recovered without any problems.

Cleanouts were conducted in three stages. First was the casing-conditioning run in the drilling fluid to scrape packer-setting depths and condition the fluid. The second run entailed the full suite of wellbore cleanout tools for displacement to the completion fluid above the lower completion. And third was the blowout-preventer jetting prior to running the upper completion.

CHALLENGE

- Global COVID-19 pandemic
- Supply chain disruptions
- Remote offshore location
- Tight schedule

SOLUTION

- Stage support out of Ghana
- Airfreight tools from UK
- Provide support from engineers based in the UK
- Have project team work around the clock to complete the job on time

RESULTS

- Exceptional wellbore cleanout meeting target specs of 0.05% solids and less than 50 NTU
- Reduced costs compared to the incumbent provider
- Efficient coordination of logistics and execution of campaign

TETRA

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Continued

EXCEEDING EXPECTATIONS FOR COST-EFFECTIVE WELLBORE CLEANOUT

The 19-month campaign yielded excellent wellbore cleanout of several shallow-water wells. Lessons learned from the first well presented the opportunity to provide a more robust casing scraper design to meet the tough downhole conditions.

The third party handling fluids and filtration indicated that the target specifications of less than 0.05% solids and final NTU below 50 were achieved in every well. Additionally, TETRA deployed a downhole filter tool in each well after cleanout, and each time it returned to the surface empty of solids, thus validating the efficiency and thoroughness of the operations.

Finally, not only did TETRA provide the work at a cost more aligned with pandemic-induced market challenges, TETRA also coordinated the logistics and executed the job with exacting efficiency, all while delivering wellbore cleanout that exceeded expectations.

Contact us to learn more at: www.onetetra.com