CASE STUDY: NORTH SEA

Integrated Solutions deploys one-trip cleanout string to prepare complex wellbore for smart completion, saves $200,000 USD

CHALLENGES

Complex wellbore required cleanout and displacement ahead of running a smart completion. Specific cleanout requirements included:

- Drilling out excess cement in 4½-in. liner
- Cleaning and drifting the 7-in. intermediate liner
- Cleaning and circulating the 9½-in. casing section with a J™ Type circulating sub
- Performing cleanout and displacement of three liner sections in one downhole run

SOLUTION

Baker Hughes Integrated Solutions (IS) deployed a one-trip cleanout string to clean and prepare the wellbore for a smart completion. The string included:

- NaviDrill™ X-treme™ motor to drill out cement in the 4½-in. liner
- A 7-in. and 9½-in. ULTRA-CLEAN™ casing scraper to remove deposits from the casing ID for improved completion running
- A 7-in. and 9½-in. X-Treme Clean™ XP downhole string magnet to capture metal shavings generated during cleanout
- A J type circulation sub to displace the 9½-in. liner with a low solid oil-based mud and perforation pill across the planned perforated area

RESULTS

- Cleaned out three liner sizes in one downhole run
- Reduced operation time by 1.8 days
- Saved $200,000 USD in operational costs
- Recorded no HSE issues or nonproductive time
- Successfully installed smart completion

"Our integrated cleanout string successfully cleaned the three liner sizes in a single run, affording efficient installation of the smart completion with less risk, downtime, and cost."

– **Adrian Smith**
IS ENSC Leader, Baker Hughes

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