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Halliburton CleanWell® solutions

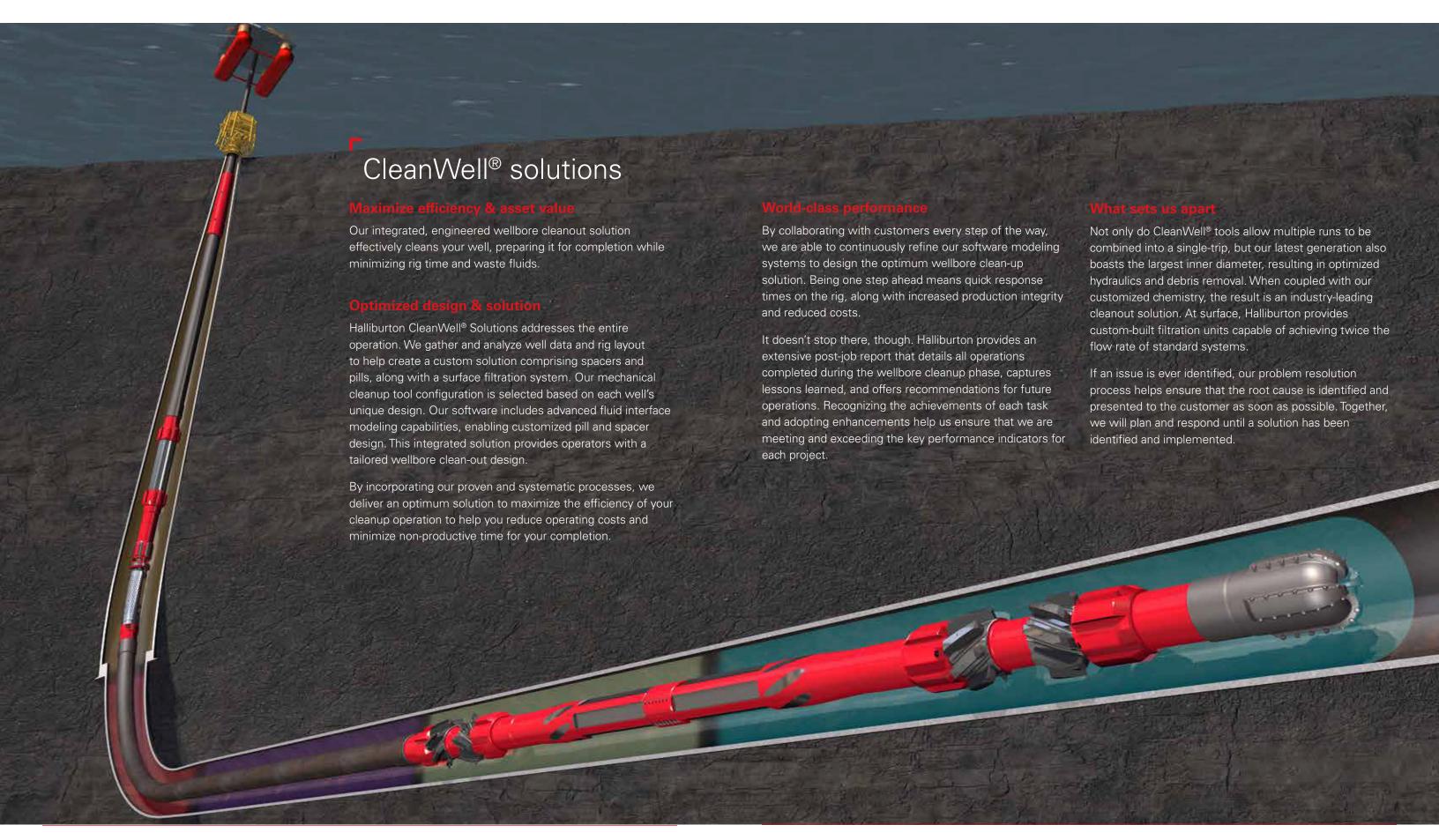
Advanced cleanout solutions for increased completion efficiency











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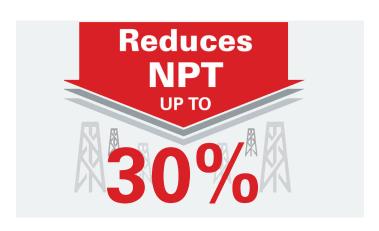
WELLBORE SERVICE TOOLS WELLBORE SERVICE TOOLS

An integrated approach that cuts costs and risks

Did you know that up to 30% of the non-productive time (NPT) during the well completion phase is directly related to debris left in the wellbore after drilling? Wellbore debris presents a major risk to the well and completion operations, making it imperative to have a robust solution for wellbore cleanup before completing the well. Debris can be a major contributor to incidents, including:

- Reservoir damage, which can inhibit production and injection rates
- Failed equipment runs, which can cause delays and NPT
- Contaminated fluids, which can contribute to lost time and environmental incidents

Halliburton CleanWell® Solutions comprises the latest generation of filtration services, wellbore cleanup fluids, mechanical wellbore cleaning tools, and optimized software modeling to protect production, prolong the life of the well, and help maximize productivity.





Why Halliburton?

Halliburton CleanWell Solutions effectively cleans your well in preparation for completion. As the market leader in deep water, we help customers achieve high standards of wellbore cleanliness while minimizing rig time and waste fluid.

- Engineering expertise and software
- Single-trip tool systems
- Customized suite of BaraKlean® cleanup pills
- BaraClear® filtration units with flow rates of 30–37 bpm double the rate available with standard units
- Integrated design and operations that help provide increased efficiency
- Customized solutions for well and installation requirements

Proven technologies delivering results

Integrated wellbore cleanup solution helps eliminate non-productive time

Challenges

An operator requested that Halliburton plan and execute a wellbore cleanup and displacement solution for a high-profile deepwater operation. Challenges included:

- Water depth of 7,000 feet (2,134 meters)
- Maximum deviation of 40 degrees
- Displacing drilling mud to completion brine
- Accelerating filtration rates

Solution

Halliburton recommended CleanWell® Solutions, a comprehensive wellbore cleanup and displacement service, featuring:

- Optimized solids-free spacer train
- Mechanical and Hydraulic modeling software
- 12 assemblies of CleanWell tools provided for riser and casing sections
- BaraClear® Hi-Flow DE filtration system

Results

Operations were completed with zero health, safety, environmental, or quality issues; zero NPT; and zero cost of poor quality. Other results included:

- Achieved accelerated filtration rates, resulting in cost savings of USD 400.000
- Realized 60 percent time savings in preparing cleanup spacers/pills
- Recovered approximately 500 pounds of debris
- Satisfied well cleanliness specifications of less than 0.05 percent total suspended solids (TSS) and 15 nephelometric turbidity units (NTUs)







residue free when pulled out



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