



CleanWell® Technology Saves \$1.6 Million on Two Wells

DRILL TECH® SCRAPERS HELP SAVE FOUR DAYS OF RIG TIME

AZERBAIJAN

CHALLENGE

Enable an operator to reduce its operations to only one trip in hole, and to save time on preparing wellbores for gravel-pack operations

SOLUTION

CleanWell® Drill Tech® scrapers in the drilling BHA to reduce trips in the hole

RESULT

- » Successfully drilled trial wells, saving four days of rig time, valued at approximately \$1.6 million
- » Saved an estimated \$800,000 per well
- » Avoided packoff issues and reduced non-productive time (NPT)

OVERVIEW

A major operator in Azerbaijan wanted to reduce the time necessary to prepare its wellbore for a gravel-pack operation. Halliburton recognized an opportunity to provide a single-trip solution by introducing the field-proven CleanWell® Drill Tech® casing scraper to the underreaming string.

The bottomhole assembly (BHA) on the first trial well successfully underreamed approximately 45 meters (148 feet) of open hole without any packoff issues. Combining the underreaming of the openhole section with the Drill Tech scrapers to clean the casing section at the same time saved the operator approximately two days of rig time and an estimated \$800,000 per well.



Drill Tech® Casing Scraper

HAL41889

CHALLENGE

To perform an underreaming operation, the operator would typically make two trips downhole and then would run a separate wellbore cleanout trip to prepare 9 5/8" and 7 5/8" inch completion packer zones and condition mud systems for gravel-pack operations.

The operator had not attempted underreaming the slim size hole with a scraper on the tool string previously, but wanted to prevent packoff and agreed to try the Halliburton solution.

Halliburton also needed to prove that CleanWell Drill Tech scrapers were robust enough to be included in the drilling string.

SAVED
USD 800,000
operating costs
per well

SOLUTION

Halliburton proposed that, by including the 9 5/8 and 7 5/8 inch Drill Tech® scrapers in the drilling string, the operator could reduce the runs required to prepare the wellbore for gravel-pack operations.

Not having prior experience with Drill Tech scrapers, the operator requested technical information to support the Halliburton bid, and it also reached out to its counterparts in the Gulf of Mexico who had used our tools, but with a slightly different objective. Several case histories were provided to the operator to prove without question that the tool could perform as intended and meet its requirements. Halliburton closely collaborated with the operator during the planning stage to understand its objectives, and offered support throughout the application, further proving that this innovative solution was worth the operator's attention.

RESULTS

The BHA, along with the 9 5/8 and 7 5/8 inch Drill Tech scrapers, successfully underreamed approximately 45 meters (148 feet) of open hole. Halliburton Drill Tech scrapers were spaced out to reach the required scraping depths and stay inside the 9 5/8 and 7 5/8 inch casing. Mud was conditioned according to the gravel-pack requirements, and on subsequent trips, the 7 5/8 inch gravel pack and the 9 5/8 inch upper completions were successfully set the first time.

As a result of this job, the operator decided to run the Drill Tech scraper in another open hole, successfully underreaming a well on an offshore platform. Combined, these two jobs saved the operator approximately four days of rig time, worth an estimated \$1.6 million.



Did You Know

Halliburton CleanWell® Solutions can reduce non-productive time (NPT) by up to 30%.

www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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**Completion
Tools**