DEEP WATER

MATURE FIELDS

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 was looking for a way to reduce the time it takes 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 pack-off issues. Combining the underreaming of the openhole section with the Drill Tech scrapers in order to clean the casing section at the same time saved the operator approximately two days of rig time per well and an estimated $800,000 savings per well.

Drill Tech® Casing Scraper

HAL41899

CHALLENGE

This operator in Azerbaijan would typically make two trips down hole to perform an underreaming operation, and then would run a separate wellbore cleanout trip to prepare 9 5/8-in. and 7 5/8-in. completion packer zones and condition mud systems in preparation 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-in. and 7 5/8-in. Drill Tech scrapers in the drilling string, the operator would be able to 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 in order to prove without question that the tool could perform as intended and meet its requirements. Providing close collaboration with the operator during the planning stage to understand its objectives, and offering support throughout the application, proved that this innovative solution was worth the operator's attention.

RESULTS

BHA, along with the 9 5/8-in. and 7 5/8-in. 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 to stay inside 9 5/8-in. and 7 5/8-in. casing. Mud was conditioned as per gravel-pack requirements and, on following trips, the 7 5/8-in. gravel pack and the 9 5/8-in. 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

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