



DEEP WATER



MATURE FIELDS

CleanWell® Technology Saves Two Days of Rig Time Offshore

DRILL TECH® SCRAPERS HELP OPERATOR SAVE \$850,000

AZERBAIJAN

CHALLENGE

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

SOLUTION

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

RESULTS

- » Well No. 1: successfully drilled 81 meters (266 feet) of open hole without any issues
- » Well No. 2: successfully drilled 341 meters (1,119 feet) of open hole without any issues
- » Saved two days of rig time, valued at approximately \$850,000

OVERVIEW

Halliburton was working with a major operator on a new trial well offshore Azerbaijan to prepare the wellbore for gravel-pack operations. By listening and responding, Halliburton helped the operator reduce its operations to only one trip in hole by simply including CleanWell® Drill Tech® scrapers in the drilling bottomhole assembly (BHA).

The job was successfully completed, and by combining drilling and wellbore cleanout trips, the operator saved two days of rig time, for an estimated savings of \$850,000. The operator quickly recognized that this job was a game changer that challenged standard wellbore cleanout philosophies and procedures performed over the years at this location. It also validated the Drill Tech scraper’s capabilities, and the operator asked Halliburton to increase the 9 5/8 inch Drill Tech scraper inventory to manage future job scope.

CHALLENGE

The operator in Azerbaijan wanted to reduce the time necessary to prepare a wellbore for gravel-pack operations. Normally, the operator would start with a BHA to drill an open hole (generally between 80 and 350 meters/262 and 1,148 feet), then it would use a separate string to prepare the packer setting areas and condition the mud for the gravel pack.

Because the operator had never tried drilling an open hole with scrapers inside the tool string, it was cautious in accepting that the Halliburton Drill Tech scrapers would be robust enough to be used in the drillstring. The operator was especially hesitant because of a past experience with another service company whose equipment had been unsuccessful in a similar wellbore.

SOLUTION

Halliburton provided an extensive list of case histories that proved the Drill Tech scrapers could meet the wellbore challenges. Additionally, the local Halliburton team set up a call for the operator to discuss the case histories with the other operators around the globe who were using the tool in such applications. After working closely with the operator and providing supporting information to validate our proposal, the operator decided to run the Drill Tech casing scrapers in its trial well.

SAVED
48
HOURS

AND SAVED
\$850,000
IN RIG TIME

RESULTS

The drilling BHA with Drill Tech® scrapers was finalized and run in Well No. 1. The operator successfully drilled approximately 222 meters (728 feet): 79 meters (259 feet) of cement, plugs, and a landing collar in the tieback section; 62 meters (203 feet) of cement in the liner show track, float collar, and shoe; and 81 meters (266 feet) of open hole.

The Drill Tech scrapers were spaced out to prepare the packer setting area and to remain inside the 9 5/8 inch casing section when at depth. The drilling fluid was conditioned according to the gravel-pack requirements, and on a subsequent trip, the gravel-pack packer was successfully set the first time.

Because of this job's success, the operator's completions team decided to promote CleanWell® Drill Tech casing scrapers internally, encouraging the operations team to review this advanced solution.

The technical advisor covering the CleanWell technology project with the operator noted that "working with the customer on a daily basis, great technical support from the global Halliburton Completion Tools team, and local commitment to service quality excellence, gained the operator's trust in CleanWell technology."



Did You Know

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



Well No. 1 –The 9 5/8 inch Drill Tech® scraper after drilling tieback, shoe track, and 81 meters (266 feet) of open hole



Well No. 2 –The 9 5/8 inch Drill Tech® scraper's condition after drilling 341 meters (1,119 feet) of open hole

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