LOCATION: QATAR

First HT30 Max core barrel system run saved 1.5 days rig time and delivered excellent core quality

Baker Hughes, a GE company (BHGE), was approached by an international oil company (IOC) operating in Qatar to improve offshore coring service efficiency. The goal was to reduce the number of required core runs without compromising quality.

To meet the IOC's needs, BHGE recommended the **HT30™ Max core barrel system**. The system is optimized for coring in 8½ in. holes, allowing longer core barrels to be run while minimizing the number of required trips.

The HT30 Max can be combined with the **JamBuster™ core jam mitigation system** while delivering a 4 in. core. Using the JamBuster increases the chance of long core barrel runs. The **Talon™ Core coring bit** was also used for increased bit stability and improved cutting efficiency.

To maintain core quality, non-rotating stabilizers were used to stabilize the inner tube downhole and improve surface handling. The universal wellsite kit was deployed at surface to recover, support, and protect the core sample in a safe and efficient manner.

270 ft (82 m) of core were cut and recovered on the first run of the HT30 Max, a 100% recovery. This core was the longest cut in that particular well's formation. Upon examination in the laboratory, the core was found to be in excellent condition.

In addition to saving one day of rig time by acquiring the core requirements in one trip, the Talon Core delivered a ROP of 42ft/hr, a 150% improvement over previous wells.

BHGE was able to help the IOC meet all of their objectives, and ultimately resulted in a savings of 1.5 days rig time and an estimated USD $375,000. Due to its success, the HT30 Max will be utilized on future coring operations for this IOC.

Results

- Recovered 270 ft (82 m) of core in one run
- 100% core recovery
- 100% barrel efficiency
- Provided excellent core quality
- Improved ROP 150%
- Saved an additional core run through longer barrel setup
- Saved 1.5 days rig time

Challenges

- Acquire the core in as few runs as possible
- 4 in. core required in combination with JamBuster technology in 8½ in. hole section
- Limestone interbedded with anhydrite

BHGE solution

- HT30 Max core barrel system
- JamBuster core jam mitigation system
- Talon Core coring bit
- Non-rotating inner tube stabilizers
- Universal wellsite kit equipment

bhge.com

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