



BHGE Drilling Services saved deepwater operator \$6M USD on exploration well



100%

Recovery rate

12

Fewer days on rig

\$6M

USD saved

An operator in the Gulf of Mexico was working on an exploration well. Baker Hughes, a GE company (BHGE) had been awarded an integrated operations contract to drill and complete deepwater and ultra-deepwater wells for this operator; however, this would be the first BHGE well to be drilled at such water depth in the area (>9,800 ft, or 2,987 m). Additional challenges facing the team included requirements to directionally drill and simultaneously ream through low-mechanical-strength interbedded formations (<2,000 psi unconfined compressive strength, or UCS), avoid contingency casings, and provide accurate and early detection of the coring point.

In order to ensure that all customer requirements were met, the BHGE team developed a detailed, tailored proposal using several BHGE services. These included:

- **Navi-Drill™ X-treme™ high-performance drill mud motor (12-³/₄-in.)**
- **AutoTrak™ G3 integrated rotary steerable drilling system**

- **CoPilot™ real-time drilling optimization service**
- **GaugePro™ expandable hydraulic under-reamer**
- **GaugePro Echo on-command digital reamer**
- **SoundTrak™ acoustic imaging service**
- **ZoneTrak™ R at-bit resistivity service**
- **AccuFit™ service**
- **HT60 Core Barrel System with 12-¹/₄-in. BHC407 PDC core bit**
- **JamBuster™ anti-jamming coring system**

The integrated BHGE services successfully acquired 60 ft (18.3 m) of high-quality core samples, with 100% recovery. Real-time logging-while-drilling (LWD) measurements were obtained with no non-productive time (NPT) and ROP was increased 15%, in comparison to the best offset well. BHGE drilled the entire well in 39 days, 12 days fewer than scheduled, saving the operator \$6 million USD.

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