

Thailand

RockStrong FCS™ coring system aids first successful conventional coring project for operator

Core captured at a 99.3% recovery rate

CHALLENGE

- Obtain first rock coring samples in soft unconsolidated sandstone formation
- Risk of core milling/washing and poor recovery

SOLUTION

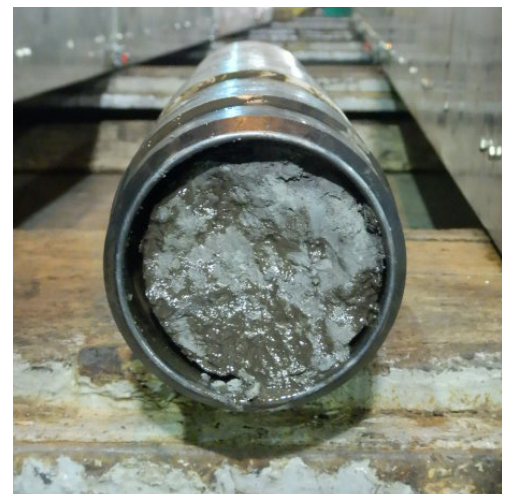
- 6-3/4 in. RockStrong FCS™ coring system with an 8-1/2 in. FC3743 core bit design
- Core freezing and foam injection stabilization technique for core sample transport

RESULT

- 122 ft. of 4 in. core captured at a recovery rate of 99.3%
- Core jamming eliminated during all five runs
- Core samples successfully preserved, stabilized, and transported to the laboratory with minimal damage
- Operator obtained good core sample information to run further analysis on field's hydrocarbon viability

Overview

An operator approached Halliburton Drill Bits and Services to perform its first conventional coring project in an offshore oil and gas field at a shallow depth with 35° deviated inclination. This offshore environment is characterized as a soft, unconsolidated sandstone formation presenting risk of core milling/washing and poor recovery. No history for coring was done in this field.



Solution

In collaboration with the operator, Halliburton carefully developed a detailed design of service to deploy the 6-3/4 in. RockStrong FCS™ coring system for a total of five runs to capture the soft unconsolidated formation core samples. Core freezing and foam injection stabilization would be applied to transport the coring samples to the laboratory.

Result

Core jamming was eliminated during all five runs using the RockStrong FCS coring system. With an 8-1/2 in. FC3743 core bit design, Halliburton captured 122 ft. of 4 in. core at a recovery rate of 99.3%.

With the application of the core freezing technique, all fragile unconsolidated samples were successfully preserved, stabilized, and transported to the laboratory with minimal damage.

The operator obtained good core sample information to run further analysis on the field's hydrocarbon viability. Lastly, this efficient and well-coordinated operation was performed with zero nonproductive time (NPT) or health, safety, and environmental (HSE) issues.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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