Weatherford®

REAL RESULTS

QuickCut™ System Successfully Mills Window, Enables Completion of Coalbed Methane Well for Nexen Petroleum UK

QuickCut technology was deployed by Geometric drilling rig HH55 in this environmentally sensitive operation.

Objectives

- Provide a cost-effective, production-enabling technology to drill a coalbed methane well beneath Keele University as part of their sustainability and self-sufficiency policy.
- Mitigate environmental risks during the operation.

Results

- A 4 1/2-in. OD hydraulically actuated *QuickCut* casing exit system with RHN-Type anchor were coupled with a 4 3/4-in. OD *QuickCut* milling assembly and deployed.
- Both whipstock systems were installed successfully and the window was milled in a single trip.
- The whipstock assemblies were retrieved in one trip with a retrieval hook. The drilling assemblies passed through the window without interference.
- A slotted liner with an inflatable packer were run through the lower lateral, but were unable to achieve target depth (TD). The liner and packer were then run through the upper lateral to achieve TD successfully and complete the well.

Value to Client

- The use of the *QuickCut* casing exit system and milling assembly enabled Keele University to access coalbed methane reserves, evaluate the thickness of the Great Row Seam and conduct a long-term production test to assist in reaching their goal of becoming an energy self-sufficient campus.

Client
Nexen Petroleum UK Limited

Location
Keele University, North Staffordshire, UK

Formation
Great Row Coal Seam (upper-coal measures)

Well Type
Onshore, dual-lateral appraisal

Inclination
54°

Lower Lateral Depth
In: 2,118 ft (646 m)
Out: 2,131 ft (650 m)

Upper Lateral Depth
In: 1,986 ft (605 m)
Out: 1,998 ft (609 m)

Casing Size
5 1/2-in., 17-lb/ft VAM TOP®

Products/Services
- *QuickCut* casing exit system
- RHN-Type anchor
- Tubular running services
- ResLab evaluation services
- Weatherford rental tools

VAM TOP is a registered trademark of Vallourec & Mannesmann

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