REAL RESULTS

Gulf of Mexico: eCTD® Motor, ClearCut™ Technology Mills 373 ft of Cement from High-Temp Well

Objectives

- Mill cement out of a newly drilled gas well offshore Alabama. A motor was needed that could withstand a 430° F (221° C) bottomhole temperature (BHT) and mill up to 400 ft (122 m) of cement from the liner from a depth exceeding 21,000 ft (6,400 m).

Results

- Weatherford's 2 1/8-in. *eCTD* motor and a 2 1/2-in. OD *ClearCut* cement mill, run on coiled tubing, were used to successfully mill through 80 ft (24 m) of green cement and 373 ft (114 m) of solid cement in 3-1/2 hr.

Value to Client

- The ability to run the mill and motor on coiled tubing eliminated the need for a rig and drillpipe and the associated risk and rig time.
- The *eCTD* motor withstood the rigors of the milling job, avoiding the costly delays that could result from failures of conventional motor technology in such harsh environments.

Weatherford's *eCTD* motor has all the rugged traits of the proven CTD® motor plus many enhancements to perform in today's hotter and deeper wells with declining bottomhole pressures. This positive-displacement motor features a stator of uniform thickness to provide more consistent performance than conventional power-section technology. The motor that set the standard for reliable performance in coiled-tubing deployed interventions is now more powerful and durable than ever before.

Location
Offshore Alabama, USA

Well Type
Gas

Maximum Bottomhole Temperature
405° F (207° C)

Depth to Top of Cement
21,730 ft (6,623 m)

Depths
- Tag: 21,730 ft (6,623 m)
- Milled: 22,103 ft (6,737 m)

Milling Time
3-1/2 hr

Hole Size
3-1/2 in.

Coiled Tubing
1 ½-in., 12.7-lb/ft production tubing

Flow Rate
42 gal/min, 12.6 ppg calcium bromide

Products/Services
- Thru-tubing services
- *eCTD* motor
- *ClearCut* cement mill

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