



Weatherford®

REAL RESULTS

Model 541R Bow-Spring Centralizer Subs Pass Tight Wellhead Restriction, Provide Optimal Liner Centralization and Rotation During Cementing Operations

Objectives

- Run 1,000 ft (305 m) of 17-in. liner through a restricted wellhead from a measured depth of 3,200 ft (975 m) to 4,200 ft (1,280 m).
- Achieve optimal casing stand off in 20-in. open hole and rotate the liner while performing a cement job.

Results

- Weatherford personnel specifically designed and deployed rotatable, 17-in. Model 541R bow-spring centralizer subs to provide excellent standoff in 20-in. open hole.
- The liner and bow-spring subs successfully passed through a 17.77-in. wellhead restriction without a recorded weight variation due to the tight restriction of the wellhead.
- The 17-in. liner started rotating at 21,000 ft-lb (28,475 N·m) and stabilized at 13,000 ft-lb (17,625 N·m) while cementing a 1,400-ft (426-m) section. Full returns were recorded at the top of the liner, confirming the cement job was successful.

Value to Client

- Weatherford's Model 541R bow-spring centralizer subs enabled the liner to pass a tight restriction to reach total depth and provided excellent standoff in open hole, resulting in optimal centralization for enhanced cementing operations and results.
- The excellent cement job provided zonal isolation, preventing time-consuming and expensive remedial operations.
- The job was performed efficiently and safely without accidents or lost-time incidents.



Weatherford's Model 541R bow-spring centralizer subs passed through a 17.77-in. wellhead clearance and centralized a 17-in. liner in 20-in. open hole, enabling ConocoPhillips Norway to achieve a successful cement job for long-term zonal isolation.

Client

ConocoPhillips Norway

Location

Ekofisk, Norway

Rig Type

Maerski Gallant, Jackup

Well

EKO Z-10

Hole Size

20 in.

Max Deviation

27°

Liner Size

17-in., 77.5-lb/ft, P-110

Depth

- 1,700 ft (518 m)
- 3,200 ft (975 m)
- 4,200 ft (1,280 m)

Products/Services

- Model 541R bow-spring centralizer subs

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