



Weatherford®

REAL RESULTS



StarBurst™ Multilateral System Enables ChevronTexaco to Commingle Production from Two Separate Reservoir Intervals

Operator: ChevronTexaco
Location: Strathspey field, North Sea
Lease: 3/4a-M14/M14z (MSJ)
Depth: 11,550 ft and 10,839 ft
Main bore: 10-in., 69.2-lb/ft Q125 casing
Laterals: 8 1/2-in. hole cased with 7-in. liners

Weatherford services and equipment:

- ShallowAngle QuickCut™ (SAQC) casing exit system
- StarBurst™ multilateral system
- Nodeco® liner hanger
- Tubular running services
- Rental products
- Cementing equipment

Objectives

- Primary: Produce from two separate reservoir intervals in different fault blocks.
- Recover wellbore tubing, and prepare well for sidetrack operations.
- Deploy liner hanger systems for lateral liner completions.
- Allow deployment of 110-ft directional drilling and logging bottomhole assembly (BHA) by creating 125-ft rat holes from window.
- Create dual lateral junctions through 10-in., 69.2-lb/ft Q125 casing from a floating rig.

Results

- The multilateral well was successfully completed in two separate reservoir intervals for commingled production.
- Tubular Running Services and pulling operations were conducted safely.
- Both junctions were cut in 10-in., 69.2-lb/ft Q125 casing with SAQC and *StarBurst* milling systems.
- Both liner hanger operations were run and set successfully despite a difficult downhole operating environment.
- A *StarBurst* Level 4 multilateral system was successfully deployed from a semi-submersible rig.

Value to Client

- This installation of a *StarBurst* multilateral system allowed two separate reservoir intervals to be commingled at the junction and produced to surface.
- The simplicity of the installation allowed successful junction completion despite the upper liner not reaching target depth.
- 3/4a-M14/M14z (MSJ) is currently the largest producer in the ChevronTexaco North Sea portfolio.

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