



Weatherford®

REAL RESULTS

Shallow-Angle QuickCut™ Casing Exit System Mills 10-in., Q125 Casing and 125 ft of Formation, Maintaining Full-Gauge Window and Rathole

Objectives

- Mill a full-gauge window in 10-in. heavy-wall, high-grade casing.
- Continue to mill/drill a 125-ft (38-m) rathole to accommodate a 110-ft (33.5-m) logging-while-drilling assembly.
- Provide the drilling bottomhole assembly with a smooth transition through the window.

Results

- A full-gauge 22-ft (6.7-m) shallow-angle window and extended rathole were achieved in two trips.
- No cleanup or gauge run was required.
- A smooth window was achieved in 10-in. heavy-wall Q125 casing.
- The angle was held for the 125-ft rathole.

Value to Client

- Thorough job planning by Weatherford specialists, in conjunction with ChevronTexaco engineers, resulted in effective risk assessment, viable contingency plans, a realistic equipment delivery schedule, and excellent shore-based support during complications encountered while setting the whipstock. (Although the whipstock mill was unable to cut the window in one trip, the second trip with the window mill was extremely effective in finishing the window in a reasonable period of time.)
- A 125-ft rathole was effectively drilled below the window with the window mill (at an average of 10 ft/hr with the mill recovered in full gauge).
- Field service personnel were very knowledgeable of the equipment and the operating procedures.



Client

ChevronTexaco

Location

UKCS North Sea

Formation

Shetland claystone

Depth

11,550 ft (3,520 m) MD RKB

Casing

10-in., 69.2-lb/ft Q125

Well Type

Lower lateral producer

Hole Size

8-1/2 in.

Products/Services

Shallow-angle *QuickCut* casing exit system