



Weatherford®

REAL RESULTS

Quickcut™ Casing Exit System and Wireline Shuttle Tools Successfully Sidetrack Difficult Open-Hole Section

Objectives

- Increase reservoir access by creating an 8 1/2-in. sidetrack in a difficult hole with swelling high-angle shale and washouts. These conditions would make conventional logging extremely difficult.

Results

- Weatherford used its *QuickCut* casing exit system to deploy, set, and mill a window with one rathole in a single trip.
- Mills were recovered in gauge, and the system was run through 53.5-lb/ft casing and set in 43.5-lb/ft casing.
- The difficult 8 1/2-in. open-hole section was then successfully logged using the *Compact*™ logging shuttle to convey logging tools on drillpipe.
- The shuttle tool was safely recovered through the window, and the well was completed.

Value to Client

- By allowing the new reservoir to be accessed from the existing drilling pad, well-construction costs were reduced in a difficult environment.
- Risk was reduced because the open-hole section could be logged using complete formation-evaluation data and logging tools could be transferred through the window.
- The drilling and evaluation curve was substantially reduced, increasing the efficiency of the entire well-construction process.



The whipstock operator gauges the OD of the mill body after the run. Mills exited the hole in gauge, so a second trip was not required.

Location

Pavayacu, Peru

Casing Size and Weight

9 5/8-in., 43.5-lb/ft with a 8 1/2-in sidetrack

Depth

- Window: 7,503 ft (2,287m)
- Logging: 10,761 ft (3,280 m)

Hole Angle

38° at window

Milling

13 ft (4 m) window milled in 5.5 hr,
33 ft (9.97 m) total with rathole

Logging

1,968 ft (600 m) fully logged
in 19 hr 40 min

Products/Services

- *QuickCut* casing exit system
- *Compact* logging shuttle