

# First Successful Cased Hole Exit Created in One Trip in Saudi Arabia for Halliburton



**Region:** Saudi Arabia, Middle East

**Customer:** National Oil Company

## Case benefits

- Single-trip reliable, effective and efficient sidetracks
- 360 degree and low side exits improve target accuracy and reduce drilling time
- Confidence in system due to 300+ wells track record

## Key capabilities

- Unique multiramp whipstock; carbide coated ramps
- Unique geometry combination mill; integrated pilot mill
- Tri-directional anchor slips provide positive anchoring

## Typical Applications

- Sidetracks
- Multilaterals
- Controlled casing exit

## Challenge

An operator in Saudi Arabia, through Halliburton, required a clean, full-gauge window and rathole for sidetracking with a 6-1/8" directional drilling assembly in a vertical well. The exit would be through a 7-in, 26-lbs/ft liner, at 5310 feet.

## Solution

Archer's 7" X-it casing exit system was run with a 6,151-in OD Single Trip Mill. The whipstock assembly was oriented 45 L degrees using a gyro service, and anchored with a hydraulic actuated retrievable packer.

The single trip mill was released from the whipstock and commenced milling.

## Result

Archer Oiltools' X-it™ cased hole whipstock system and single trip mill provided a clean, fullgauge 10-foot window at 5310 feet in 3.5 hours and a 10-foot rathole in 4.5 hours.

The window was reamed and polished. A slide test performed through the window showed no torque or drag.

The single trip mill's lead mill was 1/32" under-gauge while the follow and dress mill were in-gauge when pulled out of the hole, confirming the excellent window condition. The subsequent 6 1/8-in drilling assembly was able to pass safely and easily through the window and drill ahead.

For more information, contact your **local Archer representative**.



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