



Weatherford®

REAL RESULTS

QuickCut™ Casing Exit System Creates Exit Window Through Chrome Liner, Facilitates Drilling of Two Upper Lateral Wells

Objectives

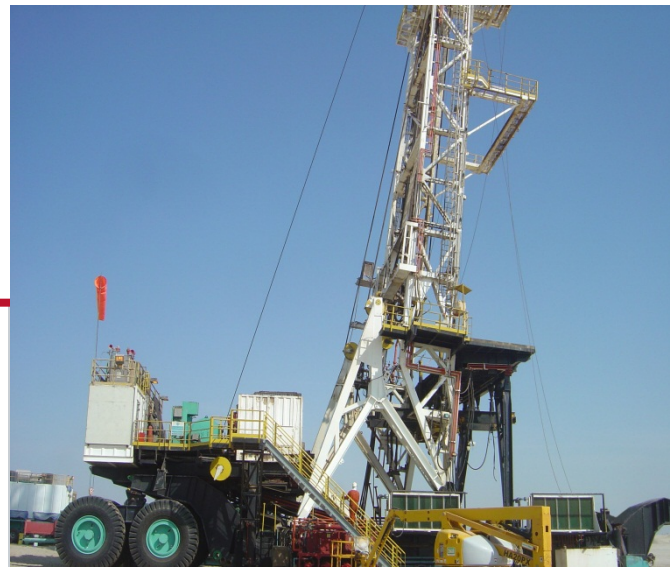
- Open a casing string window in a liner with high chrome content.
- Drill a rathole to enable a RSS directional drilling assembly to pass through the window before drilling the 5,000-ft (1,524-m) upper lateral. Al Hosn Gas proposed drilling two lateral wells in the field with 25% H₂S content. The operator needed access to both laterals to reach total depth (TD) with coiled tubing and help facilitate effective stimulations and future data acquisitions.
- Retrieve the RHN-type anchor whipstock assembly with primary recovery method.

Results

- Al Hosn Gas deployed Weatherford's *QuickCut* casing exit whipstock system with a RHN-type *MultiCatch* anchor.
- The window was milled in the chrome liner without encountering the work-hardening of the material.
- The whipstock assembly was run in the hole and set at 33° on the right side of the chrome casing at 10,062 ft (3,066 m).
- A 9-ft (2.7-m) window and a 15-ft (4.5-m) rathole was completed in 3 hours without any issues.
- The RSS assembly, which included 160 ft (48.7 m) of logging components including a 6-in. OD Weatherford roller reamer, passed through the window in a single trip.
- Al Hosn Gas began drilling operations on schedule.
- Upon completion of drilling operations, the whipstock assembly was recovered in a single trip using the *QuickCut* retrieval hook.

Value to Client

- Using Weatherford's *QuickCut* system with a *MultiCatch* anchor enabled Al Hosn Gas to mill an extended casing window through a chrome casing liner and drill a short rathole—all in one run.
- The rathole saved the operator a trip because the RSS assembly was run directly without drilling a pocket using a conventional drilling assembly.
- The "full gauge" window and rathole mitigated the need for an additional window reaming/elongation operation, saving Al Hosn Gas significant rig time and associated costs.



Weatherford's *QuickCut* casing exit whipstock system's single-trip design and the high-expansion *MultiCatch* anchor provided the operator with unmatched flexibility, creating an exit window and a rathole in a high-chrome liner, and enabling the operator to drill two lateral wells in a formation with 25% H₂S content.

"This was a first for Al Hosn Gas, and while there were concerns about being able to mill a window in the CRA liner, the job went textbook. Weatherford's *QuickCut* technology was a fundamental part of being able to affect a cased-hole sidetrack and drill a 5,000-ft lateral in this well."

—Allan J. Cross, Senior Drilling Engineer

Client

Al Hosn Gas

Location

Abu Dhabi

Formation

Limestone with anhydrite stringers

Well Type

Onshore, gas

Setting Depth

10,062 ft (3,066 m)

Well Inclination

60°

Casing

7-in., 29-lb/ft SM2535
(23 to 27% Cr, 29.5 to 36.5% Ni)

Products/Services

- Re-entry services
- *QuickCut* casing exit whipstock system
- *MultiCatch* anchor

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