



# Weatherford®

## REAL RESULTS

### Micro-Seal® Isolation System Run in United Arab Emirates for the First Time, Mitigates Microannular Gas Migration

#### Objectives

- Mitigate possible gas migration in three specified zones that are also prone to ballooning effects due to temperature and pressure variations associated with injection operations.

#### Results

- Twelve Weatherford Micro-Seal isolation system rigid (MSIS-R) centralizers were slipped on the 7-in. liner and run in the 8.5-in. open hole. The rigid blades of the centralizers easily glided over restrictions in the wellbore during run in.
- Two MSIS-R centralizers were placed at each of the following depths to prevent future gas migration after the cement job was conducted: 10332, 10291, 10247, 8810, 8769, and 8728 ft.

#### Value to Client

- Placement of multiple MSIS-R centralizers in the annulus increased the likelihood of achieving total isolation.
- The centralizers provided maximum standoff to achieve efficient mud displacement and effective cement placement.
- The hybrid-swellaable elements on the tools prevented unwanted gas migration through microannuli leak paths between the liner and cement sheath.
- The MSIS-R centralizers offered the operator a low-risk, cost-effective alternative to expensive and time-consuming remedial cementing operations, which are often necessitated by microannular gas migration.



Weatherford Micro-Seal isolation system rigid centralizers were used for the first time in the UAE in an onshore well. Multiple centralizers were run to prevent gas migration in microannular paths that often form between liners and cement sheath. Preventing such gas migration can significantly enhance well safety and performance.

#### Location

United Arab Emirates

#### Rig Type

Onshore

#### Well Type

Water alternating gas

#### Hole Size

8.5 in.

#### Maximum Inclination

89°

#### Liner Size and Weight

7-in., 29 lb/ft

#### Top of Liner

6636 ft (169 m)

#### Liner Length

3740 ft (95 m)

#### Products/Services

- Micro-Seal isolation system rigid centralizers

Weatherford  
Mohamed El-Khatib  
WCP UAE Product Line Manager  
mohamed.elkhatib@me.weatherford.com

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at [weatherford.com](http://weatherford.com). For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford and may be registered in the United States and/or other countries. Weatherford products named herein may be protected by one or more U.S. and/or foreign patents. Specifications are subject to change without notice. Weatherford sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Weatherford and the client.