



# Weatherford®

## REAL RESULTS

### MetalSkin® Openhole Liner System Improves Zonal Isolation and Maximizes Reservoir Contact in Onshore Saudi Arabian Field

#### Objective

- Maximize reservoir contact by providing better zonal isolation in an onshore well where serious differential sticking issues made it difficult to successfully install a liner.

#### Results

- Weatherford ran an expandable 5 1/2- x 7-in. *MetalSkin* openhole liner system across the horizontal section from approximately 5,950-ft (1,814-m) measured depth (MD) to approximately 6,920-ft (2,109-m) MD for a post-expansion length of 970 ft (296 m).
- The *MetalSkin* system was successfully pressure-tested to 1,500 psi (10,342 kPa).
- Subsequent cement bond logs and ultrasonic imaging tool logs showed an excellent cement bond throughout the entire expandable casing interval.
- The well was then sidetracked from windows in the liner; two 5 1/2-in. laterals were drilled; and the re-completed well was promptly put back on line.

#### Value to Client

- Productivity improved from approximately 2,000 to 7,000 BOPD.
- The flexibility and adaptability of the *MetalSkin* openhole liner system provided a cost-effective and safe solution, enabling the well to return quickly to production and maximize return on investment.
- The *MetalSkin* openhole liner system, used in conjunction with expandable composite centralizers, has become a valuable addition to the operator's recompletion tool box.
- Reliability was enhanced by the system's premium metal-to-metal seal connections and seamless tubulars.



The *MetalSkin* family of solid expandable openhole systems provides contingent isolation of trouble zones, without loss of hole size, to optimize field development economics.

#### Location

Onshore, Kingdom of Saudi Arabia

#### Field

Shaybah field

#### Mud Type and Weight

79 lb/ft<sup>3</sup>, 10.6-ppg water-based polymer

#### Fracture Gradient

0.492 psi/ft

#### Bottomhole Temperature

163°F (73°C) at 4,660 ft (1,420 m)

#### Inclination

90°

#### Products/Services

*MetalSkin* openhole liner system