



Weatherford®

REAL RESULTS

TruForm™ Expandable Liner Hanger System Proves to be Economical, Reliable in First Field Trial in Algerian Well

Objectives

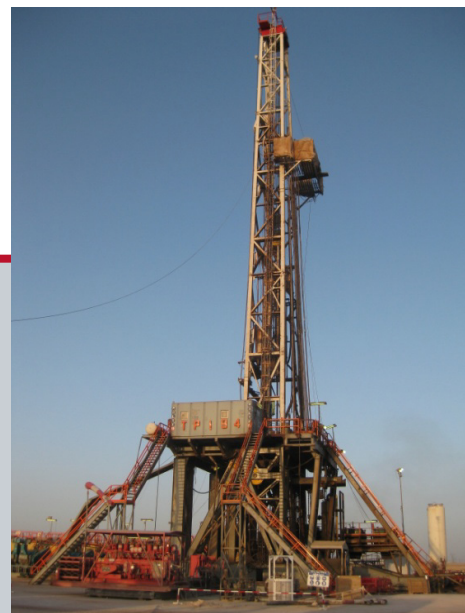
- Complete an effective 7-in. liner cement job across a long lap to support the 9 5/8-in. casing string, providing a double barrier against salt flows and maintain isolation throughout the drilling and completion process.
- Run a 7-in. liner in 8 3/8-in. open hole at an minimal speed of at least one joint per minute to avoid surge pressures and prevent fluid losses.

Results

- A long, 2,425-ft (739-m) liner lap was effectively cemented to support the 9 5/8-in. host casing, maintaining isolation during drilling and completion.
- The liner was rotated at 10 to 20 rpm, with a maximum torque of 1,000 ft/lb (1,355 N•m) during running in the hole and exceeded an optimum speed greater than one joint per minute, avoiding surge pressures and fluid loss.
- Key objectives and performance benchmarks for the overall system were successfully achieved and recorded with no reportable incidents or operational problems.

Value to Client

- The success of the field trial provided the operator with innovative technology that was capable of improving cement job results while eliminating nonproductive time.
- The successful cement job with isolation from the liner top to the shoe allowed the production zone to be drilled and completed without costly squeeze jobs.
- The planning and collaboration between Weatherford and Sonatrach personnel ensured that new technology could be introduced safely and effectively, without compromising the well.



Weatherford's *TruForm* expandable liner hanger system was successfully field tested for the first time in an Algerian development well.



Client
Sonatrach

Location
Algeria

Well Type
Onshore development

Hole Size
8-3/8 in.

Open Hole
246 ft (75 m)

Casing
9-5/8 in., 47 to 53.5 lb/ft

Liner Size
7 in., 29 to 32 lb/ft

Well Depth and Angle
10,837 ft (3,303 m) MD, 51° deviation,
11.83° DLS

Liner Depth and Angle(Top)
8,294 ft (2,528 m), 0° deviation

Products/Services

- Tubular running services
- *TruForm* expandable liner hanger system
- *SpiraGlider*™ centralizer system

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Sonatrach
Nacer Doumaz
Chef de Project Forage
ndoumaz@amt.sonatrach.dz

Sonatrach
Brahim Hammoudi
Chief Department Operations
bhammoudi@amt.sonatrach.dz

Weatherford
Marwan Roushdy
marwan.roushdy@me.weatherford.com
Jose Zavala
jose.zavala@weatherford.com