Weatherford®

REAL RESULTS

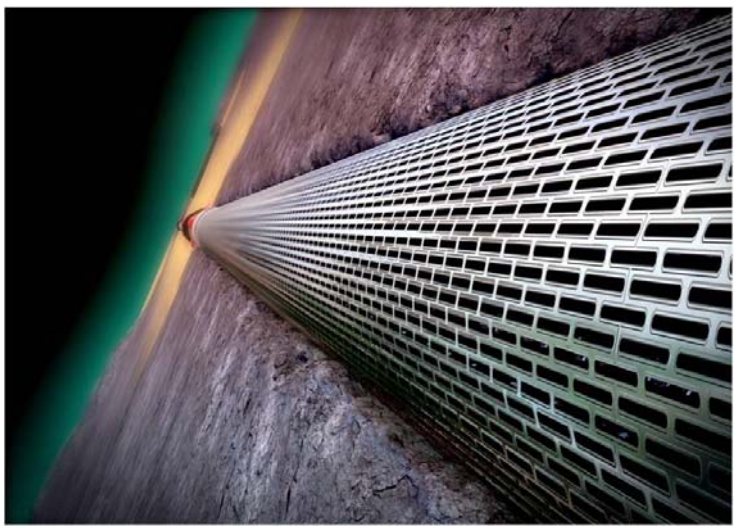
ESS® System Achieves Sand Control and Zonal Isolation in Deepwater Wells Offshore Nigeria

Objectives

- Achieve compliant sand control in multiple zones offshore Nigeria.
- Install a multi-zonal completion with zonal isolation, allowing a selective upper completion to be installed.

Results

- *ESS* expandable sand screen system was installed and expanded successfully in an 8 1/2-in. open hole to achieve sand control and zonal isolation in six water-injector wells with 9 5/8-in. casing and two oil-producer wells with 10 3/4-in. casing.
- The *ESS* completions were installed and expanded from a drillship operating in deep water.
- All eight *ESS* completions were installed without incident.



Compliantly expanded sand screen in an 8 1/2-in. open hole.

Two oil-producer *ESS* completions were deployed from this semi-submersible rig.

Location
Offshore Nigeria

Water Depth
4,298 ft (1,310 m)

Well Type
Oil producer and water injector

Hole Angle
27˚ to 52˚

Setting Depth
9,796 to 11,945 ft (2,986 to 3,641m)

Completion Length
515 to 1,125 ft (157 to 343 m)

Products/Services
- 7-in. *ESS* expandable sand screens
- EZI™ expandable zonal isolation tool
- EXR liner hanger

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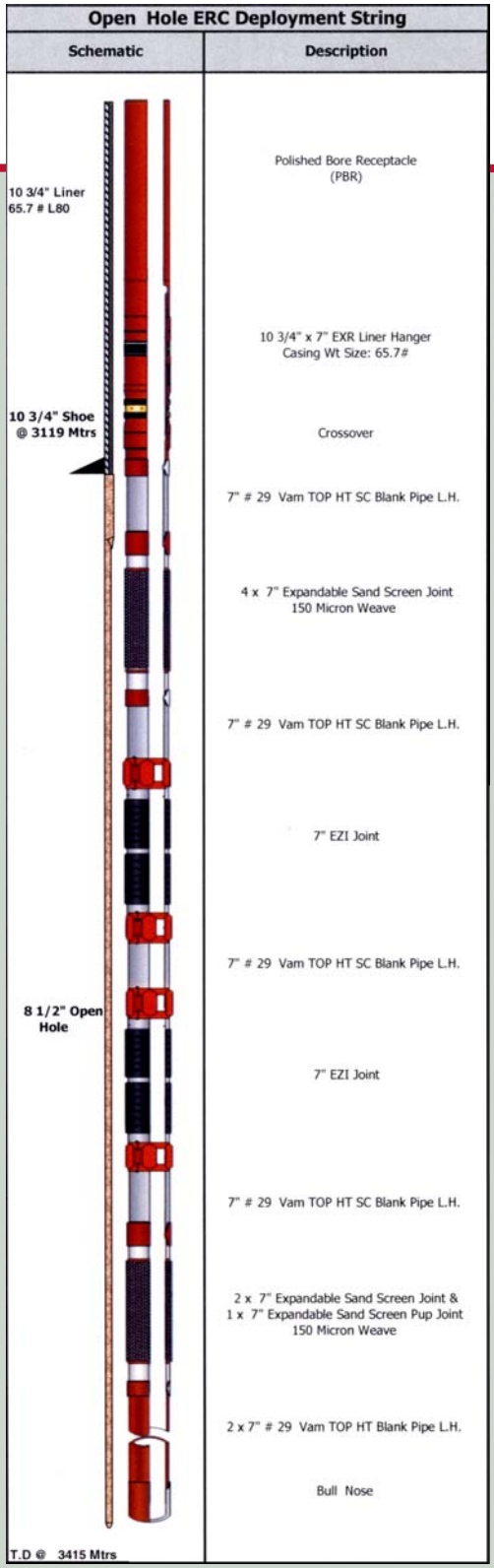
Value to Client

- Weatherford's capability to provide the client with the necessary equipment and personnel resulted in a reliable sand-control system. Minimal crew and equipment assets resulted in enhanced safety and optimal operational efficiency when compared to gravel-packing operations.
- Weatherford's ability to supply equipment from other ESS® projects in West Africa at short notice enabled the client to complete the wells as scheduled.

The *ESS* system was run using an EXR liner hanger, and all eight wells were successfully installed and expanded. Weatherford's *ESS* system prevents sand production, provides borehole support, and combats aggressive corrosion conditions.



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