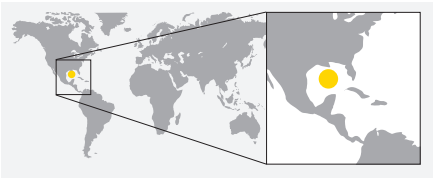
Time-saving Cflex® Reduced ECDs During Inner String Cement Job in the Gulf of Mexico



Region: US GOM
Customer: Major operator
Field: Alaminos Canyon
Well Type: Subsea Producer

Case Benefits

- Prevented perforating and squeeze contingency to achieve full cement isolation
- Allowed cementing operations to be completed at one time instead of multiple phases.
- Cflex used in primary cementing operations

Key Capabilities

- Track history of manipulating Cflex at higher deviations +/- 40deg
- Can reduce trips by running cement retainer on bottom of cementing tool
- Can position cementing tool below Cflex and take returns back into annulus

Typical Applications

- Cflex typically used during contingency top down squeeze cementing operations.

Challenge

A customer's well in the Gulf of Mexico was being drilled into a new reservoir crossing through a previously produced depleted zone. The customer needed to cement the shoe, as well as provide isolation above the depleted zone. Due to the length of the liner, the depleted zone, and strength of the formation at the shoe, it was felt that a successful cement job was nearly impossible using a standard cementing approach.

Solution

The customer ran a Cflex 500' above the depleted zone on the casing string. After the casing was installed, a cement retainer was run at the bottom of an Archer cementing tool for an inner string cement job. The cement retainer was set and tested; then the cementing tool and stinger were picked up to open the Cflex. Once the Cflex was confirmed to be open, the string was lowered and stung into the cement retainer.

The cement job was performed pumping 250bbls of cement through the cement retainer, while taking returns back through the Cflex. Once the required cement volume was pumped, the stinger was removed from the retainer and the string was picked up until the cementing tool latched and closed the Cflex. At that point, the remaining cement was circulated out of the well.

Result

An additional attempt to pump through the Cflex, as well as a bond log, confirmed that cement had been placed from the shoe to above the depleted zone, creating the isolation required.

This operation saved the customer 1-2 cementing operation runs, potentially 1-2 squeeze perforation runs, and provided full integrity of the casing for the remainder of the operations.

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