CASE STUDY: KUWAIT

InvictaSet successfully deployed in 5 in. liner resulting in long-term isolation

CHALLENGES

- The customer faced several challenges cementing in a field with a history of sustained casing pressure and high tectonic stress areas
- The operation required cementing in a 5 in. liner in conditions with high bottom hole static temperature (BHST) of 210°F and a maximum deviation of 37.5°
- There was significant risk of annular cement damage due to the wide variation in temperature condition
- Additionally, there were losses of 30BHP prior to the job

SOLUTION

Baker Hughes recommended the InvictaSet™ self-regenerating cement system for its ability to:

- Regenerate itself when in contact with hydrocarbon or water
- Withstand demanding operational parameters
- React and reseal for effective zonal isolation through multiple damage cycles

A train spacer was also used to enhance cleaning efficiency.

RESULTS

- Achieved no losses during the cementing job
- Created a superior cement bond log, resulting in long-term isolation
- Eliminated the need for remedial operations
- The customer was satisfied with the results, leading to the award and successful completion of two additional 5 in. liner jobs

Maintain long-term zonal isolation with a cement system that repairs itself.

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