CASE STUDY: GULF OF MEXICO

Maximizing ROE on acid treatment

SITUATION

An operator approached Baker Hughes to improve long-term injectivity by developing a lower cost stimulation solution

OPERATOR CHALLENGES

- Inefficient removal of filter cake from open hole completion installations causes higher skins and lower injectivities at well onset
- Traditional methods of improving injectivity through post completion stimulation can add significant costs to deep-water wells

SOLUTION

Expertise

Baker Hughes collaborated with the operator on a more efficient solution for filter cake removal that could be performed during lower completion operations. Multiple product lines and operations personnel were consulted in evaluating options.

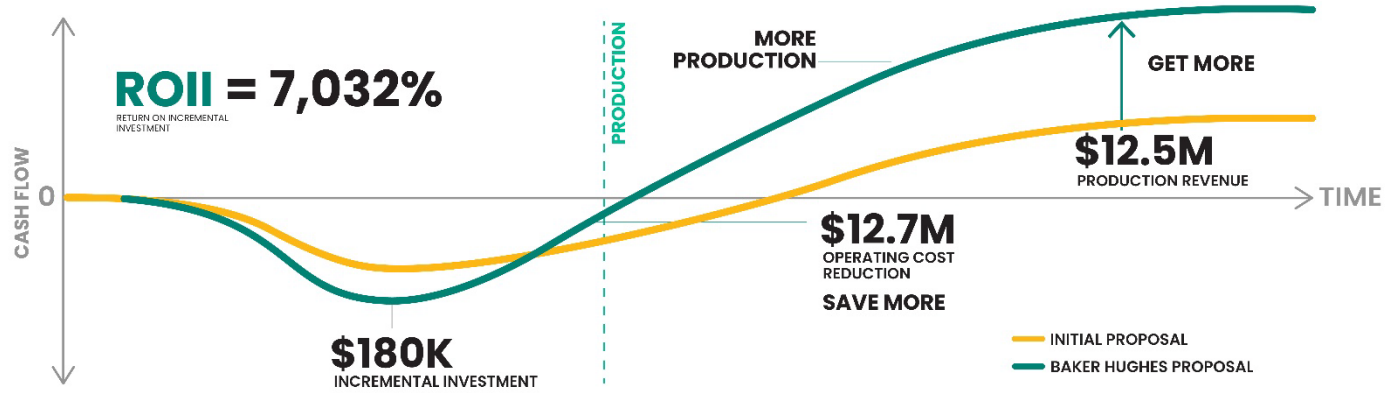
Design

Baker Hughes designed a one-trip acid treatment solution using multiple products. The Roto-Pulse™ coiled tubing jetting tool was added to the SC-XP™ Prime lower completion system to precisely inject and divert acid through the screens toward the filter cake.

Execution

Baker Hughes successfully completed design, integration, component level testing and system level testing within one year prior to field deployment. The Roto-Pulse lower completion deployed acid treatment solution met all requirements for an open hole lower completion and delivered the well in record time. The onset injectivity matched post well coiled tubing stimulation without the $10M subsea intervention cost.

ASSET LIFECYCLE



RESULTS

17 hours
rig time saved

Avoided
$10M+ subsea intervention

7X
faster open hole displacement rate reducing filter cake thickness

100%
injectivity increase from planned results

Matched
post well coiled tubing stimulation with onset injectivity

Fastest
open hole completion to date for the operator

MAXIMIZING ROE
RETURN ON EFFICIENCY

Baker Hughes

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