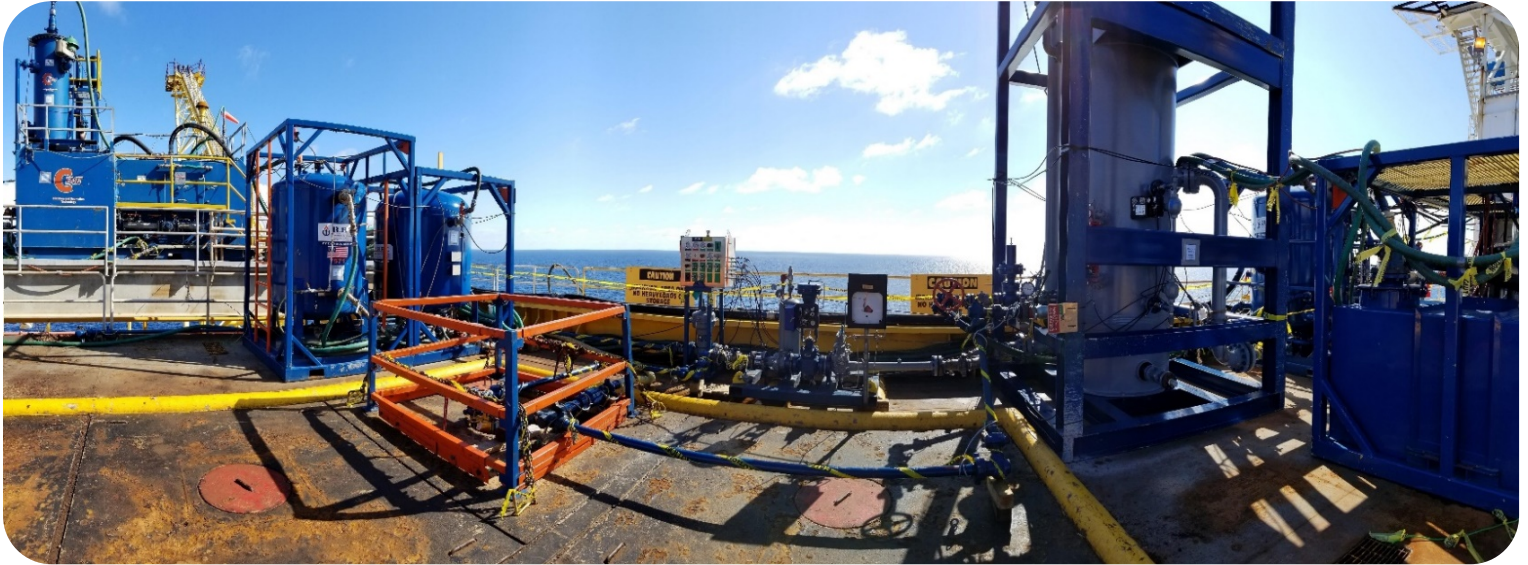


Acid Flowback / De-Sanding



Location: Grande Isle 116

Date: August 2018

Challenge

The Customer's A-2 well had a possible sand bridge as well as the need for Acid Stimulation for their A-5 well. CFAST Environmental Services developed a plan to keep both pragmatic fluid stream out of their system. The plan was to provide equipment and personnel to flowback and treat the total fluids of both the A-5 and A-2 wells while also discharging all water within NPDES guidelines. Also, while doing this we are to return any and all oil from each well back to production at pipeline quality, below 1% BS&W.

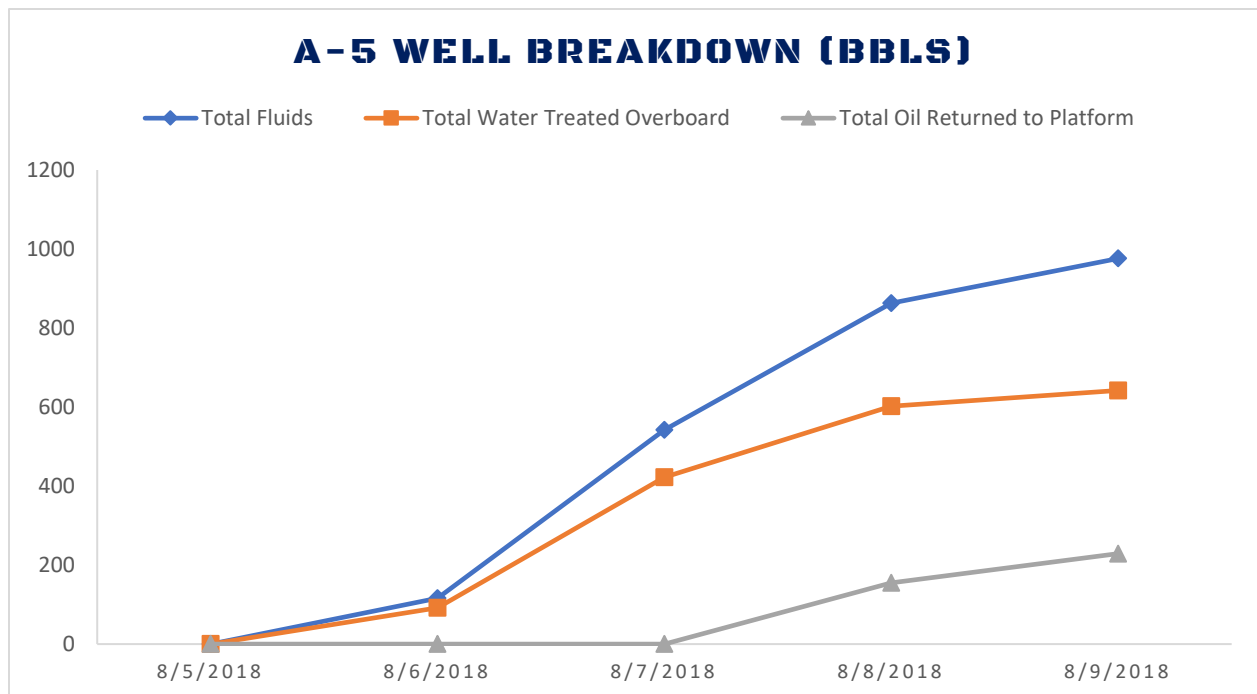
Action

- CFAST ES's Project Management Team provided all pre-job documentation such as P&ID's, deck layout drawings, area classification drawings, safety drawings, and electrical drawings in accordance with 14C compliance for BSEE approval.
- CFAST ES tied into client's production equipment with high pressure pipe and received total fluid through a choke into their system.
- CFAST ES provided four of their highly-qualified operators to operate the flowback equipment around the clock, 24hours/day.

Results

A-5 – Acid Flowback

- Received initial flowback fluids from the well at a pH of 3 and a BS&W cut of 100%.
- Treated flowback fluids until the well was cleaned up and reached a nearly neutral pH of 6.
- Received a total of 976bbls of fluid and successfully discharged 720bbls of water overboard that surpassed NPDES guidelines.
- Returned 230bbls of pipeline quality oil to production.
- Media was not changed; lasted entire operation.
- CFAST ES was able to protect the customer’s equipment while also preventing system upsets by keeping the acidic fluids out of the platforms water treatment system.



A-2 – De-Sanding

- Received initial flowback fluids and solids at a pH of 7 and BS&W cut of 100%.
- Treated flowback fluids until the well was cleaned up while maintaining a neutral pH of 7.
- Received a total of 513bbls of fluid and successfully split 380bbls of oil back to production.
- Media was not changed; lasted entire operation.
- CFAST ES was able to protect the customer’s equipment while also preventing system upsets by keeping the acidic fluids out of the platforms water treatment system.

