



Case History: A Royal Pipeline Flush

CETCO Treats Contaminated Water During Pipeline Flushing

Problem:

Helix Well Ops contacted CETCO Oilfield Services to treat and discharge its hydrocarbon contaminated water returns during a pipeline flushing operation onboard the Helix Seawell light well intervention vessel.

Solution:

The fluids were treated during pipeline flushing operations for overboard discharge at the worksite, which was Maersk Oil's Gryphon field, approximately 190 miles northeast of Aberdeen. CETCO Oilfield Services utilised its patented water treatment technologies – Hi-Flow™ and CrudeSorb® media, to filter and process the produced water. Then, the cleaned water was discharged directly overboard, in full compliance with regulatory requirements.

Method:

For the case, a Hi-Flow™ IFV 4000 skid was coupled with a CrudeSorb® RFV 4000 skid and used with another CrudeSorb® vessel downstream. During a two week period CETCO treated and discharged overboard 9327 bbls (1483 m³) with an average sample inlet of 238 ppm and an overboard average of 5.8 ppm oil in water. This represents average oil in water efficiency removal of 97.5%. One set of consumables lasted for the duration of the project.



Seawell Light Well Intervention / Dive Support Vessel



IFV4000 & RFV4000 operating on the Helix Seawell

WATER TREATMENT

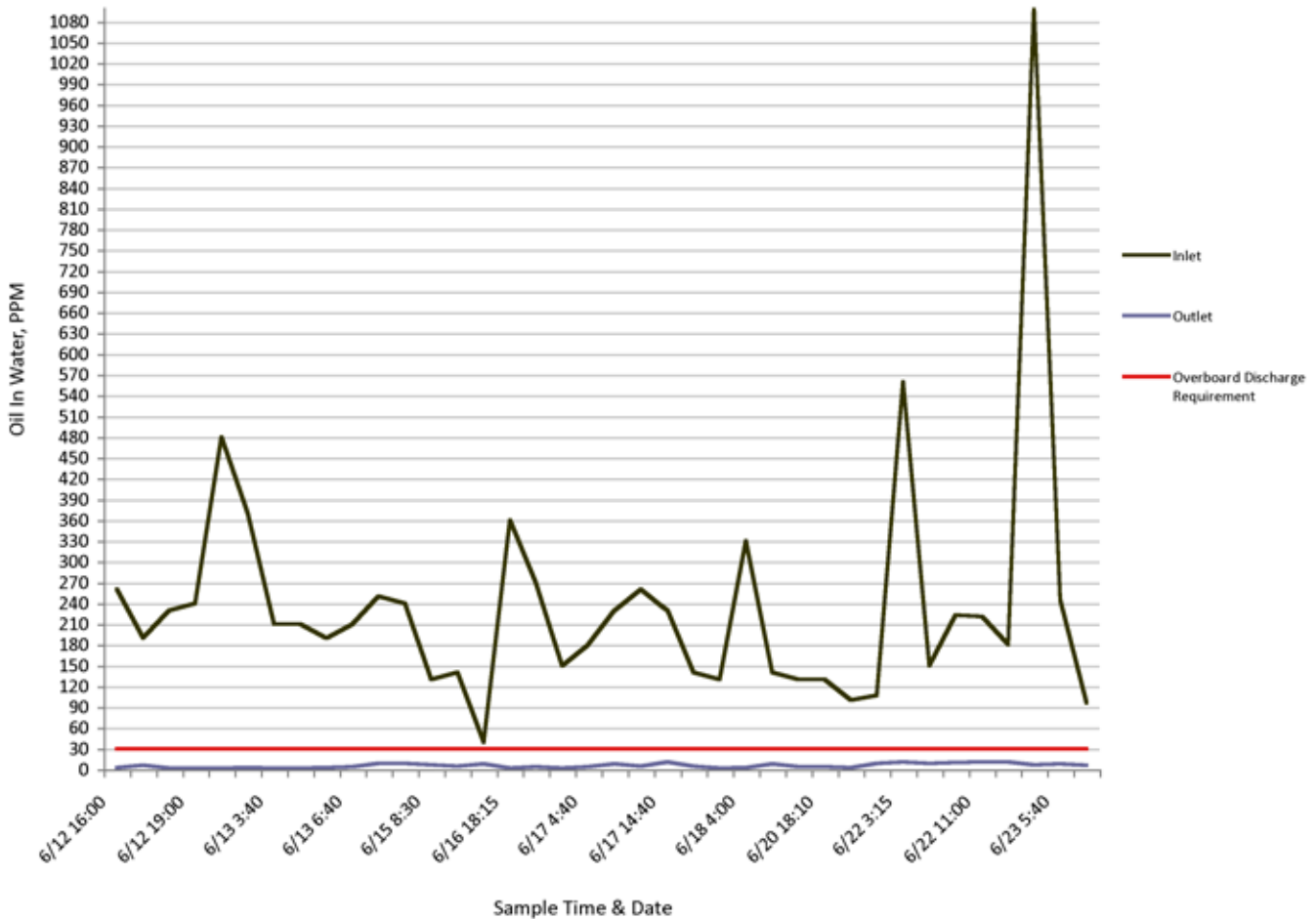


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Hi-Flow™ & CrudeSorb® Performance Onboard Helix Seawell



Outcome:

CETCO Oilfield Services provided the company a cost effective, robust system that efficiently treated its produced water, and then discharged the cleaned water overboard in full compliance with regulatory requirements. Commenting on the CETCO treatment of the pipeline flush returns on the Seawell, Offshore Project Manager Kevin Laing said, "The CETCO crews we had onboard during our last project, carried out a lot of work on a pretty challenging job where the returns were of much higher hydrocarbon content than expected. Your crews worked very hard and safely throughout the job and had a great "can do" attitude throughout and I cannot commend them and your equipment enough for helping with the success in this particular project."

WATER TREATMENT



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