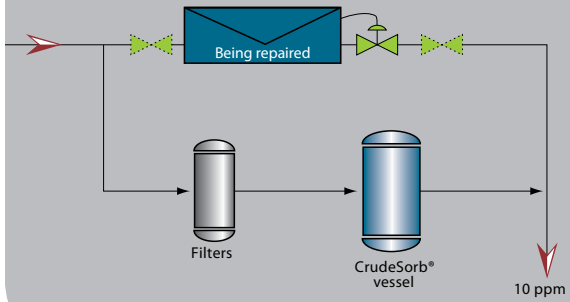




Case History: Creating a Diversion

Repairing Produced Water Treating Equipment ~20,000 BPD



CrudeSorb® Media and Equipment Allow Continuous Oil Production While Oil Company Conducted Repairs on Its Equipment

Problem

An oil company needed to repair its water treatment equipment without curtailing oil production.

Solution

CETCO Oilfield Services created a bypass that allowed the oil company to continue operations during repairs. Here's what we did:

- Identified an accessible section of piping upstream of the equipment to be repaired.
- Made 4 hot-tap connections within the identified piping section.
- Installed a bypass connecting the outer hot-tap connections and established flow through the bypass.
- Inserted in-line plugs through the inner hot-tap connections and we removed the piping between the connections. We welded flanges on the exposed ends of pipe, and installed valves. Once the valves were in place, we removed the plugging equipment.
- Installed temporary piping and hoses, connecting the upstream valve to CETCO's equipment.
- Established flow-through vessels containing CrudeSorb® media and discharged the produced water directly overboard.

Results

Each day during the 14 days it took the oil company to repair its water treatment equipment, CETCO Oilfield Services treated 15,000 - 20,000 barrels of produced water, with an average influent quality of 300 ppm oil and grease and an effluent quality going overboard less than 10 ppm.

WATER TREATMENT | PIPELINE | WELL TESTING | WASTEWATER | RENTALS | NITROGEN | REELED TUBING



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