



Case History: Flow & Unload

Hi-Flow® Process Increases Well Flow Rate and Acts as a Temporary Flow Back Handling System



IFV 2000

Problem

In an effort to increase the flow rate through a well in the Gulf of Mexico and ultimately unload the well, a major operator required a means to increase the flow rate from 500 barrels of total fluids per day to at least 2,000 barrels per day.

The operator required a system that could simultaneously increase the flow rate through the well while ensuring the resulting wastewater met strict overboard discharge criteria.

Additionally, it was stipulated that the system had to be able to handle a minimum of 2,000 barrels of water per day in order to unload the well successfully.

Solution

After two weeks of trying to increase the flow rate without success, the operator contacted CETCO Oilfield Services to deliver and install a temporary flow back water management system to increase the flow rate and ultimately unload the well.

Assessing the needs of the operator, CETCO Oilfield Services devised and deployed its Hi-Flow® technology to act as a temporary flow back water handling system.

Once the fluids from the well were sent through the Hi-Flow vessel, the flow rate immediately increased, meeting the rate required by the operator to unload the well.

The temporary Hi-Flow flow back system took the total fluids from the well until it was successfully unloaded and sent back to the platform.

Method

The fluid was taken from the wellhead through a choke manifold and into a low pressure separator. The water was then sent through CETCO Oilfield Services temporary flow back system consisting of a Hi-Flow IFV 2000 vessel and a small bulk carbon vessel to clean and restore the fluid to the required overboard discharge level.

Water containing solids, minerals, and oil products was arriving into the separator at an average of 15,000 ppm. Following treatment in the separator the flow back fluid was pumped into the Hi-Flow system at an average level

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



CETCO
OILFIELD
SERVICES

New Orleans, Louisiana 504.636.3500
Broussard, Louisiana 800.432.0054
Houston, Texas 281.578.8911

cetcooilfieldservices.com



Bulk Carbon Vessel

of 1,200 ppm and once treated, CETCO achieved an overboard discharge average of 3 ppm.

Results

The patented Hi-Flow technology was so effective that the fluid leaving the flow back system for overboard discharge was less than 5 ppm.

Similarly, the flow rate subsequently increased from 500 to 2,000 barrels per day with up to 3% of oil coming into the separator, 1,500 ppm going into the Hi-Flow vessel and less than 40 ppm going out to the bulk carbon vessel.

The well, which had previously been extremely difficult to flow back, was now operating efficiently, leading to increased production and improved management and asset integrity throughout the entire field.

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