



## Case History: Hi-Flow® Steps on the Gas!

### Hi-Flow® Technology Treats Returns from a Disrupted Gas Well in Gulf of Mexico

#### Problem

When a high volume gas well in the Gulf of Mexico began taking on water, the platform's productivity was significantly hampered.

The platform was capable of handling up to 5,000 barrels of water per day and prior to any problem being identified by the operator, was producing 20-30 million standard cubic feet (scf) of gas per day.

Of the 5,000 barrels of water per day 1,000 barrels were from the gas well.

Since the well was now taking on water, 1,000 barrels were not enough to flow it and consequently, the platform's production level had dropped to 2 million scf of gas per day. The well was dying out; the water rate needed to be increased but the platform was already at capacity.

In order for the platform to continue producing gas, the well needed to be isolated from the rest of the field.

#### Solution

The operator contacted CETCO Oilfield Services to deploy and install a comprehensive production package which included the use of a Hi-Flow® process unit to manage produced water from the gas well.

The production rate on the gas well immediately increased from an average of 1,000 barrels of wastewater per day to an average of 4,500 barrels per day. This relieved some of the pressure on the well and subsequently improved the well's flow rate to 10 million scf of gas.

CETCO Oilfield Services' deployment of its treatment system, consisting of a low pressure separator and a Hi-Flow IFV 4000 package, enabled the platform to resume operations and meet gas production deadlines.

#### Method

The problem well was isolated from the rest of the field and the Hi-Flow production equipment was installed and applied.



Low Pressure Separator



IFV 4000

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



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CETCO Oilfield Services received the gas, condensate, and water from the problematic well then sent back the separated oil and gas for production while the treated produced water was discharged into the gulf from the platform.

Prior to treatment, wastewater from the well was arriving into the Hi-Flow system from the water leg of the separator at rates between 1,000 barrels per day and 6,000 barrels per day with oil concentrations between 20 and 400 ppm, unsuitable for overboard discharge. Following treatment, the water concentration was reduced to an average of 3-4 ppm, in compliance with local and federal guidelines for overboard discharge.

### **Results**

This project was extremely successful in achieving fast recovery of well productivity. Following CETCO Oilfield Services intervention, the operator was able to retrieve the remainder of the gas from the formation well. All revenue could have been lost from this well had the Hi-Flow process not been introduced.

Over the course of 21 days, CETCO Oilfield Services effectively treated 93,000 barrels of fluid, at an average of 4,500 barrels per day, and successfully discharged wastewater from the well overboard in line with local environmental jurisdiction.

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