

## MXU 5-1126 LDHI -AA Test @Deepwater Gas Condensate Well Methanol Issues Eliminated and Injection Rates Cut by 98%

### BACKGROUND

The deepwater platform is located in the Gulf of Mexico, water depth - 3500 ft. The operator has a gas-condensate well which ties back to the main platform 18 miles away. The well produces enough water to require continuous hydrate inhibition to prevent plugging of the flowlines. Methanol use is 500 gallons per day. This causes methanol contamination of the crude oil export line, large storage volumes on the platform, and excess chemical and logistical costs.

### ISSUES

This producer's well required continuous injection of ~500 gallons per day of methanol to control hydrates and ice formation in the 19-mile long flowline back to the main platform.

### ANALYSIS

Multi-Chem evaluated and modeled the well and performed in-house rocking cell tests to determine product selection and dosage rate for LDHI treatment. With a relatively low water cut, high subcooling, and umbilical delivery requirement, an anti-agglomerate MC MXU 5-1126 (CapSure™ certified for umbilical use) LDHI was selected as the best candidate.

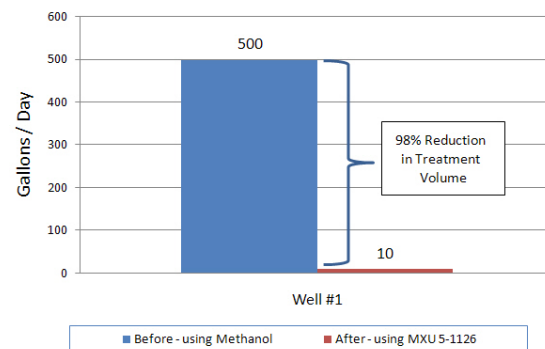
### RESOLUTION

Multi-Chem initiated the test by displacing the umbilical line containing methanol with the MXU 5-1126 hydrate inhibitor at 2.0 gallons per minute. Once the umbilical line had been displaced, the rate was stepped down to optimize. Multi-Chem personnel monitored multiple production values from the system. MXU 5-1126 was optimized at 10 gallons/day. The system continued to run smoothly without methanol for the duration of the test. No water quality or emulsion issues were seen on topside systems.

### DELIVERED VALUE

Multi-Chem was able to replace 500 gallons/day of methanol with 10 gallons/day of MXU 5-1126 on the well. In addition to realizing a significant chemical cost savings, the use of MXU 5-1126 also eliminated the contamination of the export crude and the logistical costs and space requirements associated with methanol use.

Methanol Usage vs. MC MXU 5-1126



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