

## MC MX 521-7 Combination Product Reduces Chemical Costs MC MX 23-8 Scavenger Eliminates H2S

### BACKGROUND

The well was on timer to alleviate loading issues. 6hrs off, 3hrs on. It was producing 3 e3m3 gas / day. The production was sour, due to the presence of SRB. There was also a history of scaling in piping at surface from well head to tank. Another chemical company was treating the well with 5 liter/day scale inhibitor down annulus, 5 liter/day H2S scavenger at surface and 4 liters biocide batch down annulus every second day to control H2S ppm.

### ISSUES

This operator's well experienced high chemical costs, erratic flow and pressures due to on & off production.

### ANALYSIS

The operator asked Multi-Chem to find a solution to high chemical costs. The Multi-Chem Canada team collected water samples for foamer testing, product selection, and chemical compatibility testing. It was also noted that this well had a potential for production increase by means of foam assist lift and potential cost savings by using combination products.

### RESOLUTION

Based on the analyses by Multi-Chem, using continuous FAL foamers, the well was put on 24 hr production. A combination Foamer/Scale/Corrosion inhibitor was used at 5 liters /day, MC MX 521-4. An H2S scavenger formulated with a scale inhibitor, MC MX 23-8, was applied with initial batch of 20 liters followed with a continuous injection down annulus of 2 liters/day to control H2S ppm

### DELIVERED VALUE

After several months of continuous 24hr production well continues to produce 4 e3m3 gas/day. ( 1 e3m3 gas/day increase.) H2S levels remain at 0 ppm without the use of biocide. The chemical usage has been reduced by over 40%

\*Estimated chemical cost savings of over \$12,000/year

\*Estimated production increase of over \$90,000/year

\*Estimated overall value to customer of over \$102,000/year

Multi-Chem warrants to purchaser, but no third parties or others, the specifications for the product shall fall within a generally recognized range for typical physical properties established by Multi-Chem when the product departs Multi-Chem's point of origin and that any services shall only be performed in accordance with applicable written work documents. Purchaser agrees that Multi-Chem will give purchaser the benefit of Multi-Chem's professional judgment in making interpretations of data, but does not guarantee the accuracy or correctness of such interpretations. Multi-Chem's recommendations contained herein are advisory only and without representations as to the results. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY MULTI-CHEM SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THE WARRANTY CONTAINED HEREIN. EXCEPT AS OTHERWISE SET FORTH HEREIN, THE PRODUCTS AND SERVICES ARE "AS IS" AND MULTI-CHEM MAKES NO OTHER WARRANTY OR GUARANTEE OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PURCHASER AGREES THAT MULTI-CHEM SHALL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES OR LOSSES FROM ANY CAUSE WHATSOEVER INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR GROSS NEGLIGENCE.

#### Global Technology Center

World Houston International Business Center  
15865 International Plaza Drive, Suite 200  
Houston, Texas 77032 USA

(800) 805 9178

(325) 223 6200

(325) 942 7500 FAX

[www.multichem.com](http://www.multichem.com)