

MC B-8650 in Frac Jobs Eliminates H2S Problem

Proper Treatment of Frac Fluids Key to Well's Long-Term Health

BACKGROUND

Ineffective treatments of water used to frac wells, allowed SRB (sulfate reducing bacteria) to enter reservoir and produce H2S. Other chemical companies were used to "save \$10,000 per well", which they accomplished by under treating the water pumped down hole, compromising well integrity. Despite warning from Multi-Chem, H2S levels increased in produced fluids from the undertreated wells.

ISSUES

Wells in the field were seeing increasing levels of H2S and the associated corrosion. Additional treatments for elevated levels of H2S in sales gas has begun. Producer expects to see the problem increase with time.

ANALYSIS

It was not cost effective to eliminate SRB/H2S in the formation, so Multi-Chem looked into treating bacteria via batch treatment in the wellbore with MC B-8650 biocide. To protect the metal, a corrosion treatment program using MC MX-21-6 was initiated on the affected wells.

RESOLUTION

After discussion with the Production Superintendent and his production foremen, Multi-Chem established a program of periodic batch treats with MC B-8650 and MC MX-21-6 as a corrosion inhibitor to combat the problem on wells the company has selected for treatment

DELIVERED VALUE

Multi-Chem realizes that proper control of SRB in frac waters is the most cost effective way to control H2S and the related problems it causes. The added value created by Multi-Chem is that none of the wells with Multi-Chem treated frac water has high levels of H2S. The reservoir is protected and H2S related problems such as corrosion, iron sulfide solids, disposal issues, etc. are eliminated saving millions over the life of the well.

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