

MC M-8280 Cleans Iron Sulfide in System H₂S Reduced and Production Increased

BACKGROUND

The wells average 1,500 bbl per day, and averaged 300 mcf per day, and the producer wants to clean the well bore to try and up production across the field.

ISSUES

This is an old field that was not cared for in the beginning, and has now escalated into a mostly sour gas producing field. H₂S is not a problem as there are sour gas lines in the area to carry it to a sales point.

ANALYSIS

The wells drilled in the past five years are a mixture of oil and gas producers. The gas wells are all equipped with a submersible pump, which will not allow acid treatments on the back side of the tubing. The wells were treated regularly with a 15% HCL down the tubing, leaving the backside untreated. The tubing was pulled for inspection. The backside of the tubing had a very thick FeS film - 3/4" in places. It was recommended to use MC M-8280.

RESOLUTION

Each well was batch treated with 110 gallons MC M-8280 and then circulated for 6 hours up the tubing and back down the backside. After circulation, the wells were produced for 38 days. The ESP shorted out and the well was pulled. The tubing was inspected and showed the results of a treatment that was outstanding. Although total removal wasn't achieved, greater than 75% of the FeS film was gone. This began a bi-monthly treating program for 4 wells. 12 other wells were considered. The corrosion rate in the wells was reduced considerably and the tubing was cleaned. Production increased 50 mcf and 250 BWP. Tubing replacement has come down tremendously in these four wells.

DELIVERED VALUE

Monthly Cost:
\$4235.00 per month per well

Lower H₂S in gas plant and pipeline,
Lowered tubing costs for all four well and increased production on all four wells.

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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