

Wetting Agent Contributes to Efficacy of Acid Treatment Well Returned to Profitable Production

BACKGROUND

The Burleson County well had been experiencing declining production for some time. The well was horizontally drilled in the late 1980's and is presently being produced by rod pump. Multi-Chem personnel recommended an acid job for this well because of seemingly uneconomical conditions for production.

ISSUES

A South Texas producer had a well that was no longer making a profit. The average daily production was 0.05 Barrels Oil, 10 Barrels Water and 23 MCF gas. For this reason, the well was only being pumped every other day.

ANALYSIS

Based on the well history, Multi-Chem recommended an addition to what would have been an ordinary acid job. Multi-Chem personnel had knowledge of this well's history of producing black water. In order to help combat this bacteria problem, Multi-Chem recommended treating the well with several different chemicals that would reduce the chance of corrosion after the job and would help in removing loose solids and hydrocarbons by putting them in the water phase. The pump and the 15% HCL used in the treatment was provided by a third party.

RESOLUTION

Multi-Chem set and filled 4 – 500 barrel frac tanks on location and filled each with fresh water. Each tank was treated with ten gallons of M-8172 (Wetting Agent), five gallons of B-8900 (Biocide), five gallons of B-8614 (Microbiocide) and one gallon of SS-5359 (Oxygen Scavenger). Multi-Chem then pumped 20 barrels of treated fresh water down the casing. They then pumped 2500 gallons (60 bbls.) of 15% HCL acid. Lastly, Multi-Chem personnel chased the 15% HCL acid with 1800 bbls. of treated fresh water. The treatment of the well was done with the tubing and rods in the well. To make sure no acid would enter the tubing during the treatment, the tubing was topped off with treated water and pressured up to 500# before starting the job.

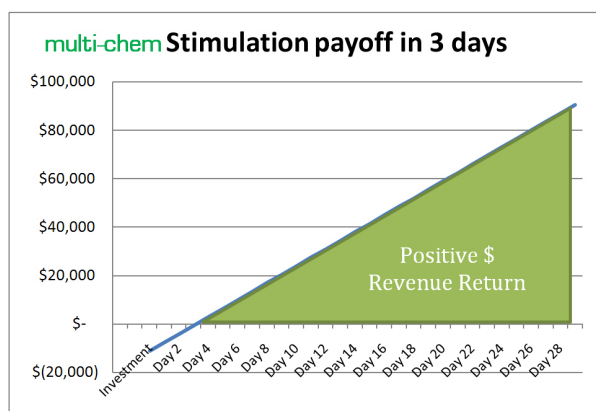
DELIVERED VALUE

Total investment of job: \$11,000 (Multi-Chem's part of cost: \$2000)
Investment return:

- Estimated pay out of the job: 3+ days
- Estimated daily production income using (conservative numbers) for BO - \$80 (WTI Price: \$110+) and MCF - \$7 (Henry Hub: \$10.10) = \$3,500

After treatment the initial Daily Production Rate was:

- 11 BO / 100 BW / 400 MCF
- After one month the Daily Production Rate is still averaging:
- 11 BO / 100 BW / 375 MCF



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