



## CASE HISTORY

### AID-25 Iron Dispersant

Long Term Well Revitalization

#### The Customer

Large independent located in the Mid-Continent Region of the United States.

#### The Challenge

- Iron sulfide issues during acid fracturing
- Acid insoluble iron sulfide
- Matrix plugging post acid re-frac due to iron sulfide

The customer was conducting large (30,000gallons) acid re-fracs in previously produced zones. Within 2 months of the application the effectiveness was rapidly diminished. During this period, a large production increase was realized which rapidly fell at or below pre-application production levels. The exact production values were not shared.

#### The Analysis

SGB fluid analyses indicated a significant amount of iron sulfide being produced and was believed to be plugging off the fracture capillaries. Produced water was very black, with high total suspended solids.

#### The SGB Solution

SGB recommended adding AID-25 to the frac fluid matrix at 1/2gal per thousand barrels, roughly 12ppm. The application goal was twofold:

1. Break down the iron sulfide allowing easy capillary flow through the fracture
2. Covert the iron sulfide into an acid soluble form

AID-25's proven track record of success, routinely accomplishing both these objectives, is why it was selected for this application.

#### The Success

Future acid frac's were pumped with the same volume of chemicals, pressure, and fluid rates, as previous ones; the only addition was AID-25. At the customer's request, 1gpt of AID-25 was added as opposed to the recommended 0.5gpt.

Flowback brine produced crystal clear with no TSS. This continued for the monitoring duration of 6 months. Production increased to expected levels.

- The AID-25 application saw no production decreased while monitored
- The water remained free of suspended iron sulfide
- No iron sulfide was detected in post application analyses