



CASE HISTORY

Gas Enhancement GE-534 & Iron Dispersant ID-23

Application ROI in 12 hours

The Customer

Major Oil & Gas Company with wells located in the Pearwood Field of Leon County Texas.

The Challenge

- Sporadic gas Production
- Production decline near 0 MCFD
- Iron sulfide and water plugs

The Operator had a flowing gas well in the Cotton Valley Lime Reef, with perforations at 14,757ft-15,200ft. The well had a steep decline curve and very sporadic gas production. Several attempts to remediate the well via chemical cleanouts, coiled tubing and motorized bits were unsuccessful.

The Analysis

During the mechanical cleaning attempts, large amounts of iron sulfide and water plugs were identified. SGB was awarded the opportunity to remediate the iron sulfide and restore the well's production.

The SGB Solution

SGB recommended Gas Enhancement GE-534 to aid in the removal of water blockage and scale and iron dispersant ID-23 to breakdown larger deposits of iron sulfide. This application was pumped downhole with coiling tubing.

1. 500 gallons of GE-534 (with corrosion inhibitor and stimulation foamer added)
2. 330 gallons of ID-23 was flushed down with 2,670 gallons of 2% KCl for a 3,000-gallon total volume
3. The entire chemical pill was pushed back to the packer with nitrogen
4. The well was shut-in over-night and flowed back into a working pit to allow the water and iron sulfide to produce out
5. Once the solids had cleared the well, it was returned to normal production

The Success

Immediately after the application, the well produced 4,625MCFD. After 75 days its production had stabilized to 3,500MCFD and 17BWPD. The application ROI was less than 12 hours with a stabilized production increase 140x that of the initial production. 4 additional wells were treated in the same way, all with the same result.

	MCFD	BWPD
Pre-Application Production	25	1
Stabilized Post Application Production	3,500	17