

Riteks SC-605

MULTI-FUNCTIONAL IRON CONTROL AGENT FOR OILFIELD APPLICATIONS

The following are actual field applications where novel, proprietary chemistry from Riteks SC 605 has been effectively used to replace THPS, Oxidizers, and other competing chemicals to treat Iron Sulfide laden water.

- 1) US wide Oilfield Water Services company South TX Salt Water Disposal (SWD) well treatment



Competitor Treatment

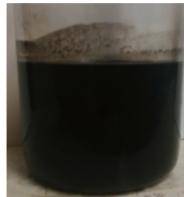


20 hours after start up of Riteks SC 605 treatment

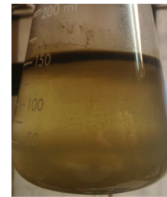
Realized benefits to customer:

- Gradual reduction of tank bottom solids, and complete elimination of the need to haul away bottom solids that used to accumulate
- Filter changes reduced from 6 – 8x per day to once
- Injection pressure reduced from 2400 psi to < 2000 psi
- Water volume increased from 8000 to 12,000 BBL per day without raising injection pressure
- Increased oil recovery
- Led to expansion of treatment to 6 other SWD locations

- 2) South TX SWD



INFLUENT SWD WATER



Riteks SC 605 TREATED – 4 HOURS REACTION

- Customer SWD was designed to handle 3500 BBL fluid per day, but was able to dispose of 16,000 BBL per day using Riteks SC 605 treatment
- Oil recovery consistently at > 200 BBL per day at < 2% BS&W without any other chemicals in use
- Oil in disposal water was < 300 ppm despite the limited retention time

- 3) Midstream Pipeline company – southern US

- 110 mile section of 36" pipeline was fouled with Iron Sulfide solids
- 3 large Multinational Oilfield service companies that specialize in pipeline cleanings failed to clean the line despite numerous pig runs and substantial chemical expense
- Riteks SC 605 product was applied and cleaned the line after 6 pig runs with approx. 5000 gallons used per run
- Customer realized profit increase of > \$1MM per day after the cleaning

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4) Regional Gas company – southern US

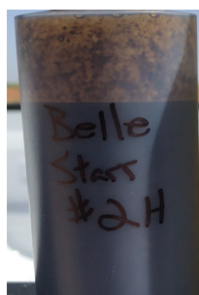
- Production had been in decline for several years
- Build up of Iron Sulfide solids had been ongoing for some time, and many wells were being considered for permanent shut-in
- Previous HCL treatments had limited effects on solids removal and production improvements
- Riteks SC 605 chemistry has recently been applied as both a soak treatment and with coiled tubing treatment on 3 “test” wells
- Operator has realized production increases of > 1MMcf per day in the coiled tubing wells, resulting in a < 12 hour payback for the chemistry used
- Wells treated via “soak” method have cleaned over 100’ of vertical pipe so that perms are now exposed and production has increased

5) Regional Oil company – southern US

- Corrosion rates in producing wells were very high (> 20 MPY) due to Oxygen & CO2 levels – Iron solids fouling was substantial
- Customer had tried numerous inhibitors with no improvements and costs of replacing tubing were a great concern
- Riteks SC 605 formulation was then deployed and corrosion rates dropped to < 2 MPY within 3 weeks and has been maintained for over 18 months and no tubing replacement
- Iron Solids were also gradually removed to the point where injection pressure dropped on the SWD by several hundred PSI, thus reducing their pumping costs

6) Regional Oil company – TX

- Produced water was heavily fouled with Iron Sulfide
- Incumbent treatment programs could not address the corrosion and deposit / fouling rates – necessitating replacement of sections of tubulars and Acid treatments to keep production flowing
- The company stated that “it wasn’t possible” to clean up or prevent the fouling they were experiencing
- A service company was given an opportunity to deploy Riteks SC 605, and in two weeks the produced water transformed from the picture on the left to the one on the right:



Before



After

Corrosion rates have decreased and oil recovery has increased since the initiation of Riteks SC 605.

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