

C-WA 300 Surfactant & Wetting Agent

SWD Injection Aid to Improve Facility Performance

SWD Field Success

Filter Life

- Run time increased from 1 day to 5 days
- Filter size reduced by 50%

Injectivity

- Wellhead pressure reduction up to 10%
- 4000 bbl/day increased injection rate at consistent wellhead pressure

Mores Success

- Drastic reduction in pump maintenance frequency
- Improved oil recover by 0.02% (\$70,000) over 6 months
- Improved Millipore throughput volume

Product Overview

Creedence Energy Service's C-WA 300 is an exceptional water wetting agent. This surfactant is predominantly utilized on Salt Water Disposals and for downhole pump issues; however, C-WA 300's nonionic character makes it extremely versatile for a wide range of applications. At recommended treatment, C-WA 300 supports economic goals.

Field Application

SWD Operators in the Williston Basin were experiencing various issues, which included: short filter run time, decreasing injection volume, and regular pump maintenance due to high solid content. After Creedence conducted a Total System Analysis (TSA) and a continuous application of C-WA 300 was implemented, immediate alleviation of noted issues were observed. Evidence of application success is highlighted on the left. Benefits are not only limited to lower operating expenditures, but also increased revenue from higher oil recovery and injection volumes.

Product Mechanisms

C-WA 300 is a unique mixture of a water-soluble surfactant and a mutual solvent. This formulation removes oil from the surface of solids, reduces surface tension of the fluid, and water-wets the formation, permitting wastewater to be injected with less pressure and higher volume. Any remaining organic solids after filtration are then easily transferred through the system. C-WA 300 also acts as a detergent, cleaning surface equipment as it passes through.

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