



Wide Spectrum Demulsifier for Oilfield Crudes

Problem

A water disposal facility in the West receives produced water from oil wells. A certain amount of crude oil carries over and is skimmed for reclamation. Due to the variations in crude gravity and chemical properties, emulsions form which do not respond to the centrifuge recovery process even when polymers are used.

Solution

Several samples of Recoverol* ECO demulsifiers were tested at 160-180°F, and one, ECO 91BC at 800-1500 ppm allowed the recovery of high quality crude oil.

Results

The customer now treats 250-300 bbl of crude slops at 160-180°F by adding ECO 91BC and mixing for 20 minutes using a blade-mixer.

The mixture is then pumped to a 3-phase centrifuge (tricanter).

Recovered oil quality is excellent; BS&W 0.2-0.3% instead of 4-5% achieved in the past.

The customer finds that if allowed to sit for a few minutes in the mix tank, the demulsified mixture breaks rapidly and may not need centrifuging.

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