Information Bulletin No. 26

ECO* Demulsifiers Simplify Handling Drilling Waste

Introduction

Don't let the management of oil production drilling waste drive you crazy.
They happen to be emulsions-and we know emulsions!
You want oil recovery? √ You want clear water? √
You want volume reduction? √ You want one chemical for all? √

Waste Characteristics	Temperature	Chemical Requirements	Physical Process ↓ Results
High Solids (>40%) High Water (>40%) Low Oil (<5%)	Ambient	Polymer	Decanter Centrifuge ↓ Fairly dry solids Clear water No oil recovery
High Solids (>40%) Medium Water (20-40%) Medium Oil (>10%)	◇140-180°F	Wash-water to equal % solids, then ECO 22-4NG @ 2500-3500 ppm	Decanter Centrifuge ↓ Water-wet solids Centrate → Oil (< 1% BS&W) Clear water
Medium Solids (10-20%) Medium Water (10-20%) High Oil (>70%)	◇140-180°F	Wash-water to equal % solids, then ECO 22-4NG @ 2000-3000 ppm	Decanter Centrifuge ↓ Centrate → Oil (<1% BS&W) Clear Water
Low Solids (<5%) Low Water (10-20%) High Oil (>80%)	◇140-180°F	ECO 22-4NG @ 1500-2000 ppm	Gravity-Settling ↓ Oil (<1% BS&W) Bottom Water+Solids

◇ [depending on paraffin and/or asphaltene content]

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